





TRIP REPORT

12th Street Landfill Site Wilmington, New Castle Co., DE

29 November 1999

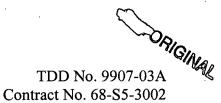
Prepared for
U.S. Environmental Protection Agency Region III
Removal Response Section

Philadelphia, PA



TRIP REPORT





1.0 INTRODUCTION

On 8 July 1999, the Roy F. Weston, Inc. (WESTON®), Site Assessment Technical Assistance (SATA) team was directed by U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Mike Towle to conduct a removal assessment at the 12th Street Landfill Site (Site) located in Wilmington, New Castle County, Delaware.

2.0 BACKGROUND

2.1 Location

The Site is located in Wilmington, New Castle County, Delaware, as seen in Figure 1, Site Location Map (Reference 1). The approximate site coordinates are 39° 44′ 15″ north latitude and 75° 31′ 35″ west longitude (Reference 2).

2.2 Site Description

The 12th Street Landfill Site is located in an industrial area on 12th Street, west of the Interstate-495 12th Street ramp, near Gander Hill Prison in Wilmington, New Castle County, Delaware. The Site consists of two land parcels. Parcel 19 (which contains the area of concern) is bordered to the west by Brandywine Creek, to the north by Asset Recovery Services, and to the east and south by state of Delaware owned land (parcel 14). Parcel 14 is bordered to the north by Gander Hill Prison, to the northeast by a Norfolk & Southern railroad yard, to the east and southeast by Norfolk & Southern railroad tracks (Shellpot Branch), and to the west by the Brandywine Creek and parcel 19 (see Figure 2, Site Plan) (Reference 3).

Julius Wemman previously owned parcel 19 until 1926. Between 1926 and 1930 the parcel was owned by the mayor and council of Wilmington. The Wilmington Economic Development Corporation owned the parcel from 1930 to 1987. This parcel is presently owned by the city of Wilmington. George W. Talley previously owned parcel 14 until 1887. Between 1887 and 1971, the parcel was owned by the Philadelphia, Baltimore, and Washington Rail Road Company. This parcel is presently owned by the state of Delaware Department of Transportation. There is no information on what the parcels were utilized for during previous ownerships. Apparently, the area of concern (AOC) was utilized as an unauthorized dump site, in which at least 14 55-gallon drums, rubber hoses, slag, and a light colored ash-like material were disposed of on the property (Reference 3). The company suspected of dumping, Electric Hose and Rubber, operated out of the Brandywine Industrial Complex located adjacent to the Site and ceased operations in 1977 (Reference 4).

The Site is relatively flat, with an average elevation of approximately 10 feet above sea level. The AOC is bounded to the west by the Brandywine Creek, which flows into the Christina River downstream of the Site. The Brandywine Creek has its headwater in the Piedmont Plateau in Pennsylvania, which defines the border between Chester County and Delaware County in Pennsylvania and



12th Street Landfill

Wilmington, New Castle Co., DE

TDD#: 9907-03AP/NAL

PCS#: 5472



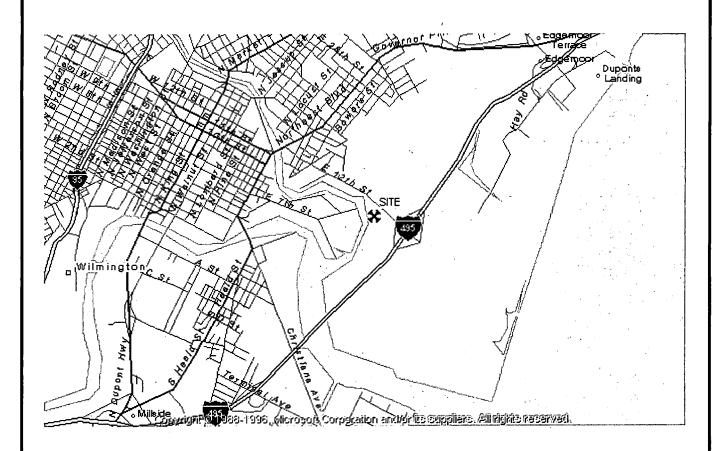
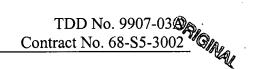


Fig. 2, Site Plan



enters Delaware just north of Beaver Valley. The creek meanders through Wilmington until it joins the Christina River which then joins the Delaware River southeast of Wilmington (Reference 5).

The water supply for the Wilmington area is obtained from a surface water intake located 4,800 feet upstream of the Site along the Brandywine Creek (Reference 6).

During the removal assessment, both parcels were covered with thick vegetation consisting of tall phragmites and deciduous trees. Two drum cluster areas were identified. One drum cluster area is located in the northwestern area of parcel 19 adjacent to the Brandywine Creek (northwest side of the AOC). The second drum cluster area is located in the center of parcel 19 (southern side of the AOC).

2.2 Geologic Setting

The Geology of the Wilmington Area, Delaware Geologic Map Series Number 4 geologic map prepared by the Delaware Geologic Survey indicates that the 12th Street Landfill Site is located on the border of the Piedmont Physiographic Province and the Atlantic Coastal Plain. The contact, referred to as the fall line, is located approximately 2,000 feet north of the 12th Street Landfill Site (Reference 5).

The bedrock at the Site consists of metaigneous and metasedimentary rocks of the Wilmington Complex. The composition is primarily hypersthene-quartz-andesine gneiss with minor amounts of biotite and magnetite. Regolith overlying the bedrock of the area reportedly varies from 0-20 feet (Reference 5).

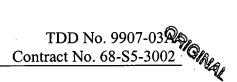
The unconsolidated aquifer overlying the bedrock generally forms at the base of the regolith, directly above the unweathered bedrock. The aquifer typically acts as an unconfined aquifer. The piedmont aquifers are complex and unpredictable due to the variability of fractures. The rock units of the Piedmont are relatively impermeable, except where weathering or fracturing has taken place (Reference 5).

Due to the variability of the regolith thickness and its limited vertical extent in the vicinity of the site, water yields are expected to be low. Groundwater at the Site is tidal influenced. The tide level for this area fluctuates 6.5 feet between low tide and high tide (Reference 7). During the removal assessment, water levels in the test pits ranged between approximately 7 to 8 feet below ground surface (bgs) in the central and southern sections of the AOC to approximately 13 feet bgs in the northwestern section of the AOC. One test pit (18 feet deep) in the northern section of the AOC did not encounter any groundwater.

There are no public supply or private home wells that are used for either domestic or potable purposes located within four miles of the Site (Reference 6).

2.3 Climatic Setting

The annual average temperature in Wilmington is 54.6°F. The average monthly temperatures range from 35°F in January to 76°F in July. The average annual precipitation for Wilmington is 44.38 inches. The average monthly precipitation



ranges from 2.72 inches in February to 5.34 inches in August. The mean annual lake evaporation for the area of the site is approximately 35 inches. The net annual precipitation for the site is approximately 9.38 inches. A two-year, 24-hour rainfall will produce approximately 3.3 inches of rain (Reference 8).

2.4 Regulatory History

On 14, 15, and 16 June 1999, Delaware Department of Natural Resources and Environmental Control (DNREC) personnel conducted a site visit as part of a Brownfields Site Assessment Investigation for the eastern side of the Brandywine Creek, along 12th Street. During the same time as the site visit, DNREC collected surface soil samples on the Site. On 7 July 1999, DNREC updated city officials on their findings (Reference 4).

In July 1999, the EPA was notified by DNREC to investigate what appeared to be drums containing hazardous materials at the Site.

In late August and early September 1999, OSC Towle began conducting a removal assessment of the property to determine if further federal actions were warranted at the 12th Street Landfill Site.

3.0 SITE ACTIVITIES

Between 26 August and 2 September 1999, a removal assessment was conducted at the 12th Street Landfill Site. Six surface soil samples (including a duplicate) were collected from the AOC, located on parcel 19. Three subsurface soil samples were collected from test pits excavated within the AOC. A groundwater sample was also collected from one test pit (TS-TP-03). Two sediment samples were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. Three ash-like samples (including a duplicate) were collected from the eastern bank of the Brandywine Creek, adjacent to the Site. One ash-like sample was collected between 5 to 6 feet bgs from a test pit (TS-TP-01). Four drum content samples were collected from drums observed on site. Sample locations are illustrated on Figure 3, Environmental Sample Location Plan.

Pathways were cut into the Site leading from the dirt access road, located along the Shellpot Branch rail line east of the Site, to the AOC in parcel 19. The pathways were cleared by knocking over the tall phragmites using a front end loader or an excavator. Trees less than 6 inches in diameter were cut down using a chainsaw. The paths were cleared in order for the contractors to gain access to the areas of interest and to set up visual lines for the surveyor to survey the two parcels. Both parcels were surveyed as part of the assessment and the property lines and corners were re-established.

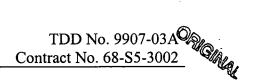
SATA members Paul Davis, Matt Martelli, and Satya Mohanty conducted the field work and sampling. OSCs Mike Towle, Jack Kelly, and Mike Welsh were also on site during different phases of the field activities.

3.1 Site Conditions and Observations

Weather conditions on 26 and 27 August were warm, 86°F, and humid, with cloudy skies (rain occurred during the evening). Weather conditions between 30 August and 2 September were cool, 76°F, low humidity, breezy, with partly cloudy skies.

F.g. 3,

Sample Location Plan



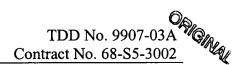
3.2 Test Pit Excavation Activities

Four test pits were excavated within the AOC, located in parcel 19. One test pit, TS-TP-03, was excavated to a depth approximately two feet below the water table, during low tide. Significant yields of groundwater were not encountered in the remaining test pits, due to the silty/clayey soil conditions. The test pits were backfilled to the surface upon completion of each test pit using the excavated material. Test pit 1 had a total depth of 18 feet. Test pit 2 had a total depth of 15 feet. Test pits 3 and 4 had total depths of 9 to 9.5 feet, respectively. A maroon colored silt (possibly fly ash) with rubber hose and wire was found from 0 to 5 feet below ground surface (bgs) in test pit 1, 0 to 8 feet bgs in test pit 2, and 0 to 6 feet bgs in test pits 3 and 4. A white ash-like substance was found from 5 to 6 feet bgs in test pit 1, 8 to 11.5 feet bgs in test pit 2, 3 to 4 feet bgs in test pit 3, and 3 to 5.5 feet bgs in test pit 4. A green and white powdery substance was observed from 9 to 10 feet bgs in test pit 1 and a layer of orange brown cinders/ash was observed from 5.5 to 8 feet bgs in test pit 4. Blackish-gray clayey silt with twig and shell remnants (swamp soils) was underlying the waste/fill material layer in all of the test pits, primarily between 8 and 11.5 feet bgs. Two metal drums containing a brown colored rubber substance and rags with chemical odors was observed in test pit 2.

Eleven exploratory test pits (XTP) were excavated in parcel 19 and three XTPs were excavated in parcel 14. The XTPs were excavated to determine the extent of the fill (maroon colored silt with rubber hoses and metal wire), or if additional buried drums exist in this area. The XTPs were excavated until the natural black organic clay (swamp soil) was encountered. The maroon colored silt fill with rubber hoses and wire was found from 0 to 5 feet bgs in XTPs A, B, and F, from 0 to 4 feet bgs in XTPs C, L, and N, from 0 to 3 feet bgs in XTP-E, from 0 to 2 feet bgs in XTP D, and from 0 to 1 foot bgs in XTP-M. Construction fill consisting of brown silt with rocks was found in XTP-K. Two 55-gallon bung top drums were found during the excavations in XTP-E and XTP-F. The black organic clayey swamp soil was found in XTPs D through J and XTPs L through N ranging at an initial depth of 2 feet bgs to 8 feet bgs. See Attachment 1 for test pit and exploratory test pit logs. See Attachment 4 for the photograph log.

3.3 Sampling Activities

During the removal assessment sampling event on 31 August and 1 September, six surface soil samples (including one duplicate) were collected from the AOC located on parcel 19. TS-SS-01 was collected next to an exposed drum located on the creek bank in the northwest section of the AOC. TS-SS-02 was collected from a location determined by the metal detector and photoionization detector readings, located next to the creek bank in the northwestern section of the AOC. TS-SS-03 was collected from a location determined by the metal detector and photoionization detector redings, located in the center of the AOC. TS-SS-04 was collected from a drainage ditch leading from the drum cluster area, in the southern section of the AOC, to the creek. TS-SS-05 was collected next to an exposed drum located in the southern area of the AOC. Three subsurface soil samples were collected from three test pits. TS-SB-01 was collected from test pit 1,



TS-SB-02 was collected from test pit 2, and TS-SB-03 was collected from test pit 4. The excavator conducting the test pit excavations was utilized to obtain the subsurface soil samples, which were collected directly from the bucket.

Sediment samples were collected from the eastern side (mudflat) of the Brandywine Creek. One sediment sample, TS-SED-01, was collected from the probable point of entry in the southwest section of the AOC (where the drainage ditch discharges into the creek). TS-SED-02 was collected from an area downgradient of the drum cluster area located in the northwest section of the AOC. Both sediment samples were collected during low tide.

One groundwater sample, TS-TP-03-W, was collected from test pit number 3. A peristaltic pump with disposable tubing was utilized to obtain the groundwater sample. The aqueous sample was filtered using a 0.45-micron filter prior to being analyzed by the laboratory. The three other test pits did not yield sufficient amounts of water for chemical analysis, therefore groundwater samples were not collected from these pits.

Laboratory quality assurance and quality control samples were collected. Also, one field blank sample and one rinsate blank sample were collected and analyzed for full scan analyses. See Attachment 2, Sample Log Sheets, for sample descriptions.

All samples were handled and packaged in accordance with the sampling plan. The organic samples were shipped via Federal Express to Severn Trent in Whippany, New Jersey for analysis. The inorganic samples were shipped via Federal Express to Southwest Labs of Oklahoma in Broken Arrow, Oklahoma for analysis. The ash and drum content samples were shipped via Federal Express to Quanterra Inc. located in Pittsburgh, Pennsylvania.

4.0 ANALYTICAL RESULTS

In groundwater sample TS-TP-03-W, the EPA Region III risk-based concentration (RBC) was exceeded for the following metals: arsenic at 5.2 ug/L (RBC = 0.045 ug/L), iron at 20,800 ug/L (RBC = 1,095 ug/L), and manganese at 882 ug/L (RBC = 73 ug/L) (Reference 9). It should be noted that the aquifer the groundwater samples were collected from is not used for drinking. The comparison is used to evaluate the on-site groundwater with regional standards for protection of human health. See Attachment 3, Sample Data Summary, for the analytical results.

Table 1, Industrial Soil RBC Exceedances, summarizes all of the compounds that exceeded industrial soil RBCs and their location (Reference 9).

Table 1 Industrial Soil RBC Exceedances

Chemical	RBC	TS-SS-01	TS-SS-02	TS-SS-03	TS-SS-04	TS-SS-05	TS-FD-01
Arsenic	3.8	33.6 K	48.8 K	117 K	24 K	96.3 K	96.9 K
Iron	61,000			82,300 J		88,800 J	80,900 J
Lead	400	206,000 J	139,000 J	7,460 J	11,100 J	4,590 J	5,630 J
Benzo(a)pyrene	0.78				1		
Chemical	RBC	TS-SB-01	TS-SB-02	TS-SB-03			
Arsenic	3.8	16.2 K	29.4 K	27.8 K			
Lead	400	7,670 J	264,000 J				
Iron	61,000			456,000 J			
Thallium	14			38.7			

All units are in mg/kg.

J = Analyte present. Reported value may not be accurate or precise.

--- = Not detected. TS-FD-01 is a field duplicate of sample TS-SS-05.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

Arsenic exceeded its RBC in nine soil samples including one duplicate. There is no RBC for lead in soil. The value of 400 mg/kg was used for comparison purposes and is based on the EPA residential soil screening value. Lead exceeded its screening value in eight soil samples.

The drum content samples and one ash-like material sample (TS-AM-03) were compared to industrial soil RBC values because the sampled material was either found on the ground surface or buried in the ground. Arsenic exceeded its RBC value of 3.8 mg/kg in the following drum content samples: TS-DC-01 (5.1 mg/kg), TS-DC-02 (15.3 mg/kg), TS-DC-04 (19.7 mg/kg), and ash-like material TS-AM-03 (13.1 mg/kg). Lead exceeded its screening value of 400 mg/kg in the following drum content samples: TS-DC-02 (106,000 mg/kg) and TS-DC-04 (3,970 mg/kg) (Reference 9).

Three ash-like material samples (TS-AM-01, TS-AM-02, and its duplicate TS-FD-03) were compared to residential sediment RBC values because the sampled material was found along the creek bank which is used for recreational activities. Arsenic exceeded its RBC value of 4.3 mg/kg in the following ash-like material samples: TS-AM-01 (8.9 mg/kg), TS-AM-02 (26 mg/kg), and TS-FD-03 (26.4 mg/kg). Barium exceeded its RBC value of 5,500 mg/kg in sample TS-AM-02 (6,270 mg/kg) (Reference 9).

In the groundwater sample TS-TP-03-W, the EPA Region III Emergency Removal Guideline (ERG) value (which is derived from the RBCs) was exceeded for the following metals: arsenic at 5.2 ug/L (ERG = 4.5 ug/L), iron at 20,800 ug/L (ERG = 10,950 ug/L), and manganese at 882 ug/L (ERG = 730 ug/L) (Reference 9).

None of the surface soil, subsurface soil, sediment, drum contents, or ash-like material samples exceeded any of the ERG values.

5.0 FUTURE ACTIONS/RECOMMENDATIONS

Following a review of the analytical results and consultation with EPA's ecological risk assessment experts, the OSC will determine if any future EPA actions are necessary at the site.

6.0 REFERENCES

- 1. Streets 98. Microsoft. 1998.
- 2. USGS (U. S. Geological Survey). 1987. Wilmington South, DEL-NJ. Topographic Map. DM 5863 II NE-series V821 N4022.5-W7530/7.5.
- 3. Ticor Title Insurance Company. 1999. Title Search for East 12th Street Landfill Site. Parcel numbers 14, 17, and 19. 10 August.
- 4. Bresland, A. 1999. Delaware Department of Natural Resources and Environmental Control, Wilmington, Delaware. Telephone conversation with Paul Davis, WESTON SATA. 19 November.
- 5. WIK Associates Inc. 1996. Remedial Investigation Report Diamond State Salvage. Wilmington, DE. August.
- 6. Roy F. Weston, Inc., Site Assessment Technical Assistance. 1999. Wilmington Drum ATSDR Package. Delran, NJ.
- 7. Roy F. Weston, Inc., Site Assessment Technical Assistance. 1998. Wilmington Drum Site Sampling Plan Removal Assessment. Delran, NJ.
- 8. NOAA (National Oceanic and Atmospheric Association). 1993. Climatic Atlas of the United States. Asheville, NC.
- 9. U.S. Environmental Protection Agency. 1999. *EPA Region III Risk-Based Concentration Table*. Philadelphia, PA. 7 October.

ATTACHMENTS:

- 1 Test Pit Logs and Exploratory Test Pit Logs
- 2 Sample Log Sheets
- 3 Sample Data Summary
- 4 Photograph Log

Attachment 1

Test Pit Logs and Exploratory Test Pit Logs

TEST PIT LOG

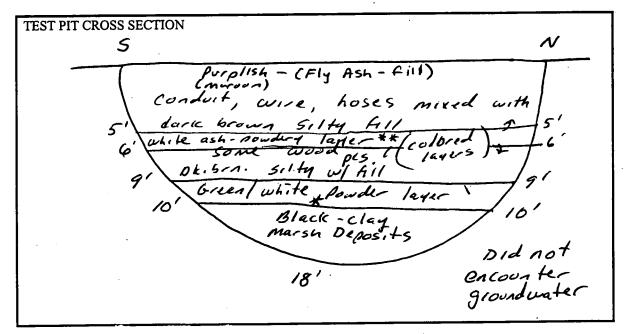
SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: T5-TP-01

PCS No.: 5472 DATE: 31 August 1999

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID FID readings
1		Purale-15h (MARDONSH) - 511+ (fill) Fly ASh with Conduit, Wires,		0.0 ppm
3		rubber hoses - wood pieces.		
5		white powdery sugstand (ash)		
7		Ok. ben silt w/ fell (hose, wire		
8	المادان التعوية لوا	· Orun white - multicolored lager of		
10		Chrystalist powder type material Black - Clay		0.0 ppm
12		marsh deposits Organics (roots) (hung + shell		
14		(emants)		
15		V(to (8')		



REMARKS: * Collected	TS-5B-01	(10 695	<u> </u>	
* * Collected Ts-	AM-03 (5'-6	6' 695)		
PHOTO LOG:		TEST PIT:	TS-TP-01	

TEST PIT LOG

SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: 75-TP-02

PCS No.: 5472 DATE: 1 September 1999

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID readings	
2 3		Concrete Chunks, Cans, boulders, hose Gregish - brown Silt - rubber to	se.	0.0 ppm	
4 5		rubber hose - Grayesh Sandy matel.	۷,		
7	<u> </u>	some ash at 6'6" bgs. Smetal drung, rubber (bra. mold of	-	Strong Sweet Cl Odors PID=820 PID=176 ppm	emical PpM
9 10		brown ash (slag)		PID = 176 ppm	
13		Oline-green clay - Swamp Soils		wet @ 13'	
14		(Twig + Su()			

TEST PIT CROSS SECTION West	East
Dark brown (Maroonish) Silt	me tal cans, hose 2'
Grayish-brown Silt	
8' La anudery subst	fance 8'
white pour	11.5' Wet=13'
11,5' Swamp soils clarcy	Met =13
/ <i>5</i> ′	

REMARKS: Collected	75-5B-02	16.5'-7.0'	695)
		THOT DIT	TC: T0 00
PHOTO LOG:		TEST PIT: _	75-TP-0Q

TEST	PIT	T.	OG
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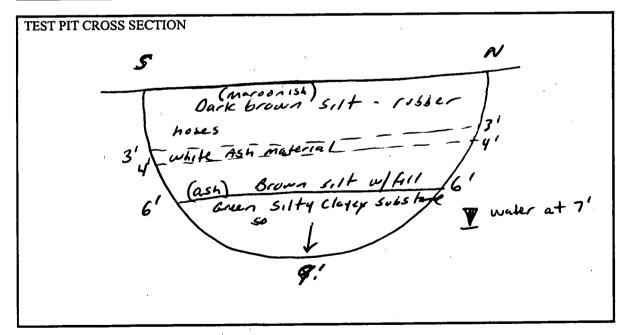
SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: <u>TS-TP-03</u>

PCS No.: <u>5472</u> DATE: <u>1 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.) o	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID FID readings	
1		boses (moron)			1
2		hoses (minon)			1
3		White Ash-like makerial lager		0.0 ppm	1
5		DOOK brown Silt- (11661- hose)]
6		(Some ash & 6') Brown	ļ		1
7	₹ 7′	Green Silty Clayey makerial		1.11	4
8	_	' some rubber hoses + wires		146 ppm	1
9]	<u> </u>	ļ	sulfor odors,	↓
	1			oily shen, octo	plerm
				sulfor odors, oily skun, petr odors	
]		ļ		-
				,	1
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	1				1



REMARKS:_	Collected	groundwater	sample:	TS-TP-03 W	
		·			
PHOTO LOG	:		TEST PIT	TS-TP-03	

TEST	PIT	L	O	G
1E51	PH	L	JU.	

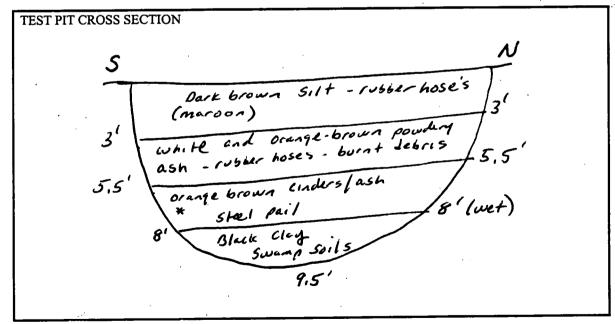
SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: **TS-TP-04**

PCS No.: 5472 DATE: 1 September 1999

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID/FID readings
2		- CMaroon)		0.0 ppm
7 6		subject to ses of burnt debris (cond	+3)	0.0 pm
7 8	(We+)	orange brown conders ash wires and hoses . Steel pail Black Clay - Swamp Soils		6.0 ppm wet 0 8
		(Twig + SAII remarks)		
i 				



REMARKS: * Collected	75-50-03	(7'b9s)		
PHOTO LOG:		TEST PIT:	TS-TP-04	

SATA Region III

SAMPLE No.: XTP-A SITE NAME: 12th Street Landfill

PCS No.: 5472 DATE: 31 Aug ust
WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

SATA PERSONNEL:

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID/FID readings
2 3		Dark brown (morvonish) 511+ Rubber hoses and wires (wire mesh)		0.0 ppM
5				
	·	·		

TEST PIT CROSS SECTION	
SW	NE
Dark brown Silt - war and wir	(Marounist) the rubber hoses

REMARKS: 5	fee + of	G(
				\$	
PHOTO LOG:			TEST PIT:	XTP-A	

SATA Region III

SITE NAME: 12 th Street Landfill	SAMPLE No.: メナアーB
PCS No.: <u>5472</u> DATE: <u>/ September 1999</u>	
WEATHER: Partly sunny, warm, temperatures in the	mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	

DEPTH (FT.) o	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PIDFID readings
Ti-	,	Brown (Marsonish) Silt - Some		
2		broken brick fragments. Rubber	ł	
3		hase reinforced with wire an	4	0.0 ppm
. 4		wire mesh.		, ,
5				
			<u> </u>	
		·		
			ļ	
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TEST PIT CROSS SECTION	
5w	NE
Brown (Maronnish) Some brick frag. (15ber hose	nests /
with wire were wire mes	and /
5'	

REMARKS:	5	of All			
PHOTO LOG:			TEST PIT:	XTP-B	

SATA Region III

·	12 th Street Landfill	SAMPLE No.:	VADA
CITE NIANIE.	12" Stroot Landfill	SAMPLE NO.	X 7 F -(
I STEEN AWE	IZ MUCCULARIUM	DAME DE MO	
D1121.		 •	
	•	_	

PCS No.: <u>5472</u> DATE: / September 1999

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID/FID readings
	Brown (maroonish) Silt - Alot of steel wire and reinforce	1	
,	russer hose (Wire mush)		0.0 рам
,			
		CHANGE Soll color, type, consistency and the waste observed.	Brown (maroonish) Silt - Alot of Steel wire and reinforced

TEST PIT CROSS SECTION W Brown (Maroconish) 511+ Alot of Skel wire and reinforced rubber hose (wire mesh) y'	

REMARKS:	This	was	located	at	9	Tho	+"	500+	trom	the	
netal	dete	ctor	Scan.	(5-	Fee +	of	AII	<u>)′ </u>			
PHOTO LOG	, <u>.</u>				TES	T PIT:		XTI	0-C		

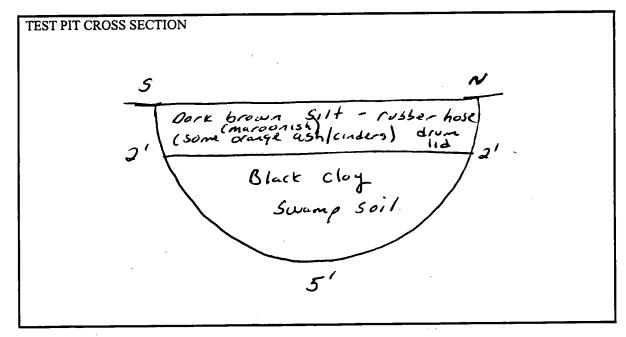
SATA Region III

SITE NAME: 12 th Street Landfill	SAMPLE No.:	XTP-D
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PCS No.: <u>5472</u> DATE: <u>1 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID FID readings
2		Black Clay - Swamp Soil.		0.0 ppm
3 4 5		Mack Clay - Swamp 3011.		
				'
		•		



REMARKS:	Prom	1,d	24000	ed	Coartrally	buried	- 5h1	dud	me tal	Sheeting
exposed	Stick	ing	out	of	ground:		·			'
PHOTO LOG	 i:					TEST PIT:	XTP	- D		

SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: x +P-E

PCS No.: 5472 DATE: 1 September 1999

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID readings
2		Steel wire + cables 55-991 bung top drum		Chemical odos S 2000 ppm mater at 5'
5		Black Clay		mater at 5'
,				

TEST PIT CROSS SECTION	
S	
Oare Grown & Silt and Clay (Murvon-154) Steel wire & custes.	
3' Black Clayed material	
5'	

REMARKS: 4	ocaked	on rid	ge/bump	Nor	drum	cluster	area	
Collected	TS - 1	C-04	from	drum	ί3'	of A11)		
PHOTO LOG:				TES	T PIT:	XTP-	. E	

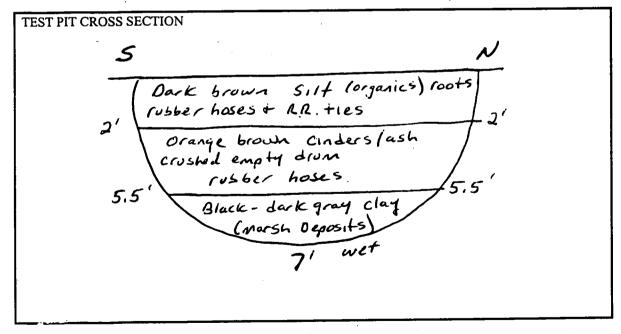
SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: XTP-F

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & DEFID readings
2		Ok. brown Silt (organics/roots) rusber hoses + R.A. Ties.		0.0 pm
<i>y</i> 5		Crush Lengty drum rusher hoses		7.6 ppm
6		Black / dark gray Clay (100+5) Organics - marsh deposits		wet
		organics - morsh ouposition		



REMARKS: Localed on a	ridge/bump los path leading to
drum cluster areas	ridge/bump los path leading to
PHOTO LOG:	TEST PIT: XTP-F

SATA Region III

SITE NAME: 12 th Street Landfill	_ SAMPLE No.: _	XTP-G

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID/FID readings
1		Brownish-gray, Glay (Marsh Ocquic (100+5) (Deposits)		
3		Grayish - brown Clay (organics) Croots) Natural marsh disposits		

TEST PIT CROSS SECTION	
5	N
Brown / grayish [Marsh Deposit	clay (roots)
21 Grayish - long	brown Clay vanies)
	4'
	,

REMARKS:	NO	All	encountered.		·	_
						 -
PHOTO LOG: _			TEST	PIT:	XTP-G	_

SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: XTP-H

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID TEADINGS
2		Large Concrete Chunks, Ok. bin. bla Clay with roots (organics) Grayish-biown Clay w/ roots (Organics)	ck	0.0 ppm
3 4		(Organics)		0-0 ftm

TEST PIT CROSS SECTION	
5	N.
large pieces of concret Chunks Oark brown (black) Clay with roots (organics)	5)
Grayish-brown clay with roots (organics)	2 '
(organics)	
4'	

REMARKS:	NO AIL	encountered			
PHOTO LOG: _			TEST PIT:	XTP-H	

EXPLORAT	ORY	TEST	PIT	LOG
-----------------	------------	------	-----	-----

SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: XTP-I

PCS No.: <u>5472</u> DATE: <u>September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.) o	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID SID readings
1	,	Dark brown Clayey Silt. (roots)		
<u>3</u>		tree strong.	ļ	0.0 ppm
5		1		
6	· · · · · · · · · · · · · · · · · · ·	Gray 154- black Clay (roots) Swamp soil / Marsh deposits		4.0
		Swamp Soil Marsh Deposits		0.0 ppM

TEST PIT CROSS SECTION	
Oark brown clayer sit (roots) (tree strong) 5' Grayish-black Clay 5' Grayish-black Clay 6' Water	

REMARKS:	10095,512	All materia	1)		
	·	<u>.</u>			
PHOTO LOG:			TEST PIT:	XTP-I	

SATA Region III

SITE NAME: 12 th Street Landfill	SAMPLE No.:	XTP-J
DITE IN MILE. IZ SHOOT BURNETH		

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID/FID readings
2		Oark brown Clayey Silt (organics fronts) Grayish-brown Clay (100ts)		0.0 ppm
4		CAYISH-DOWN CINT (13013)		
				
	_			

TEST PIT CROSS SECTION	
S	N
Dark brow (roots)	organics)
2' Grayish - Clay	(roots)
	4'

REMARKS:	No	fill	encountered			
			·			
PHOTO LOG				TEST PIT:	XTP-J	

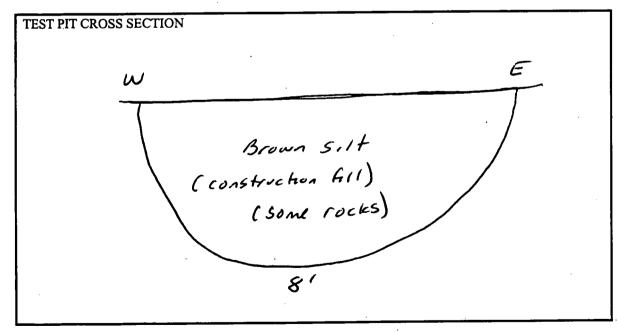
SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: XTP-K

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID readings
/		Brown SIIt (rocks)		
2				0.0 pps
3				•
4_			ļ-	
5				
6		(large rocks)		0.0 ррм
7				
8		Ψ	 	
			-	
<u> </u>			1	
			† - · -	
	١.			
	_			<u> </u>



REMARKS: (Possisia	Construction	BII)		
PHOTO LOG:		TEST PIT:	XTP-K	

SATA Region III

SITE NAME: 12 th Street Landfill	SAMPLE No.:	XTP-L
---------------------------------------------	-------------	-------

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & PID FID readings
		Ot. brown Silt (organics /roots)		
2	L	Leta. bricks - Some russer hase	<u></u>	0.0 pp
3		orange brown Silt - Rock1-		
4		Brick fragments		
5		Brick fragments Grafish brown Silt		0.0 ppm
6			<u> </u>	
7]			
8				
9		Creat Clay (Swamp Soil)		0.0 pm
]			
	1			
] .			
	1			
	1			

TEST PIT CROSS	SECTION .
ω	1 Dack towns Self Corganics/100+s)
ا نر	Dark brown Silt (organics/roots) broten bricks - Some robber hose Orange brown Silt - Rocky - Brick fragments Garage - brown Silt
9'	Grayish-brown silt
·	8' Gray Clay (Swamp Soil)

REMARKS:	4-feet	of fill	<u>. </u>	
			·	
PHOTO LOG: _			TEST PIT: XTP L	

SATA Region III

SITE NAME: 12th Street Landfill SAMPLE No.: XTP-M

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID readings
1		maroon colored silt		
2		Dark brown Clayer Sit	<u> </u>	0.0 ppm
3		Marcon Colored Silt Dark brown Clayey Silt Corganics + Silt)	1	
4_				
5		<u> </u>		0.0 ppss
6		Gray-brown Clax marsh deposits		
 7 		mush alposits	-	0.0 pps
<u> </u>				
				
			<u> </u>	
	l .			
	1			

TEST PIT CROSS SECTION	
5	\sim
Maroonish Silf	
lorganics)	Silt (100+5) /21
5' Gray brown	clay 5
Gray brown (marsh depo	05: 45
ブ	

REMARKS:	1 foot	of fill				
				PECT DIT.	XTP-M	
PHOTO LOG:				1E21 PII:	A I P = IVI	

SATA Region III

SITE NAME: 12 th Street Landfill	SAMPLE No.:	XTP-N

PCS No.: <u>5472</u> DATE: <u>2 September 1999</u>

WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy.

DEPTH (FT.)	LITH- OLOGY CHANGE	MATERIAL DESCRIPTION Soil color, type, consistency and fill/waste observed.	USCS	REMARKS & FID FID readings
/		maroon colored 511+	_	
2		OK. Grown ASITA with russer hase	<u> </u>	0.0 ppm
3		OK. browsmassiff with rusber hose concrete Chunts, broken brick, and		
4		lumber		
5		Dark brown Silt	-	0.0 100
6				
		(Some 1095)	 	
8				<i>m</i> • • • • • • • • • • • • • • • • • • •
9		Black Clar (Swamp Soils)		O.O parl
10		(Swamp 'S0113)	-	
			<u> </u>	
			 	-

TEST PIT CROSS SECTION	
SW	
" Maroonish - Silt	,
concrete Chunks (w/ hose in ,t). broken brick fragments, lumber, etc.	
Oark brown 511+	
(1095)	
(Swamp Soils)10	
(3.03.4)	·

REMARKS: At least	4 Ret	0+	GII.		
			<u></u>		
PHOTO LOG:			TEST PIT:	XTP-N	

ONGREAT

Attachment 2

Sample Log Sheets

ORIGINAL

SOIL/SEDIMENT SAMPLE LOG SHEET

SATA REGION III

	SAMPLE No.: <u>75-5E0-01</u> _
PCS No.: <u>5472</u> DATE: <u>31 August</u>	<u>1999</u>
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil Sed	iment Waste Other
Sample Method:	Color: Brownish - gray
Disposable Trowel and Aluminum Pan	Description:
Depth Sampled: 1 to 6 inches below ground surface	
Sample Date and Time:	Sandy Clay with some
8/31/99 at 08/5	Sandy clay with some pebbles and silt.
Sampled by:	,— .
(b) (4)	·
Signature(s): fund	
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
☐ High Concentration	
■ Grab	West: N/A
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map: `
	1
TCL VOAs 4° C	G. G. J. J. Ji. May in Trip Beneat
TCL SVOAs 4° C	See Sample Location Map in Trip Report.
■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide 4° C 4° C 4° C 4° C	See Sample Location Map in Trip Report.
■ TCL SVOAs 4° C ■ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken	
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Cyanide Duplicate Sample Taken Observations and Notes: CLP CWW62 CC	aller Leed from drainage
TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	aller Leed from drainage
TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CLP # Cww62 + mcwY48	Collected from drawage pathway leading from
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Cyanide Duplicate Sample Taken Observations and Notes: CLP CWW62 CC	

OPICINA

SOIL/SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>75 - 3ED -62</u>
PCS No.: <u>5472</u> DATE: <u>31 August</u>	<u>1999</u>
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil ☐ Sec	liment Waste Other
Sample Method:	Color: Orange - brown
Disposable Trowel and Aluminum Pan	
Depth Sampled:	Description:
1 to 6 inches below ground surface Sample Date and Time:	Gilty Clay - Some sand
8/31/99 at 0835	Silty Clay - some sand and gravel.
Sampled by:	-
(b) (4)	
Signature(s):	·
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
☐ High Concentration	
■ Grab	West: N/A
1	4
☐ 5-Point Composite	C I V I I I I I I I I I I I I I I I I I
Analysis Preservative	Sample Location Map:
AnalysisPreservative■ TCL VOAs4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C	Sample Location Map: See Sample Location Map in Trip Report.
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes: CCP # - CXJ67 +	See Sample Location Map in Trip Report.
Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CCP MCWY 47	Collected from drainage pathway leading from
Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CCP MCWY 47	Collected from drainage pathway leading from
Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CCP# - CXJ67 + MCWY47 Collected From eastern Side	Collected from drainage pathway leading from drum cluster area.
Analysis TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CCP# - CXJG7 + MCWY 47 Collected Gran eastern Side mod flat on Brandywink	Collected from drainage pathway leading from drum cluster area. And down grainat of exposed ash-like material
Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CCP# - CXJ67 + MCWY47 Collected From eastern Side	Collected from drainage pathway leading from

SOIL/SEDIMENT SAMPLE LOG SH	EET SATA REGION III
SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>75-55-0/</u>
PCS No.: <u>5472</u> DATE: <u>31 August</u>	· · · · · · · · · · · · · · · · · · ·
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
■ Surface Soil □ Subsurface Soil □ Sec	liment Waste Other
Sample Method:	Color: Grayish-purple (maroun)
Disposable Trowel and Aluminum Pan	Grayish-purple (Maroon)
Depth Sampled:	Description:
1 to 6 inches below ground surface	Fine silt
Sample Date and Time:	FINE SILT
8/31/99 at 0855	
Sampled by:	
(b) (4)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
☐ High Concentration	
■ Grab	West: N/A
☐ 5-Point Composite	G I V I I I I I I I I I I I I I I I I I
Analysis Preservative	Sample Location Map:
TCL VOAs 4° C	G. G. 1. Leasting Man in Trin Deport
TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	4
Cyanide 4° C	
	-
	,
☐ Duplicate Sample Taken	4
Observations and Notes:	·
CLP # - CXJ68 +	
MCYB96	
collected next to exposed	
drum on bank of creek.	
RAD = 6 malter PID: 0.0 pom	

OFIGNAL OFIGNAL

SOIL/SEDIMENT SAMPLE LOG SH	EET SATA REGION III
SITE NAME: 12 th Street Landfill	SAMPLE No.: 75-55-02
PCS No.: 5472 DATE: 31 August	
WEATHER: Partly sunny, warm, temperatur	
SATA PERSONNEL: (b) (4)	op meno mic / o og une :
DATALERSON LEE	
■ Surface Soil □ Subsurface Soil □ Sed	liment Waste Other
Sample Method:	Color: Oark brown (maroon)
Disposable Trowel and Aluminum Pan	
Depth Sampled:	Description:
1 to 6 inches below ground surface	SILT - Some organics
Sample Date and Time: 8/31/99 at 0900	
Sampled by:	
(b) (4)	
Signature(s): Paul on D = MI Wafth	
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
☐ High Concentration	4
■ Grab	West: N/A
☐ 5-Point Composite	O I I I II II I
Analysis Preservative	Sample Location Map:
■ TCL VOAs 4° C ■ TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C	See Sample Location Wap in Trip Report
TAL Metals 4° C	1
Cyanide 4° C	1
See Cyanide 1 C	
	1
☐ Duplicate Sample Taken	·
Observations and Notes:	
CLP # - CXJ69 +	
MCYB97	<u>'</u>
1	
Collected from "Hot Spot observed during reconn. I metal detector / PID reading) - Mear pathway	
detector/PID reading) - near pathony	1
PID = 0.0 pam	

OPIGING!

SOIL/SEDIMENT SAMPLE LOG SHEET SATA

SATA REGION III

SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>TS-SS-03</u>
PCS No.: <u>5472</u> DATE: <u>31 August</u>	<u>1999</u>
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Sec	
Sample Method:	Color: Dark brown (maroon)
Disposable Trowel and Aluminum Pan Depth Sampled:	Description:
1 to 6 inches below ground surface	Description.
Sample Date and Time:	
8/31/99 at 09/0	Silt - Some organics
Sampled by:	•
(b) (4)	·
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
☐ High Concentration	
Grab	West: N/A
☐ 5-Point Composite	
	Comple I costion Mone
Analysis Preservative	Sample Location Map:
AnalysisPreservative■ TCL VOAs4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C	Sample Location Map: See Sample Location Map in Trip Report.
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
AnalysisPreservative■ TCL VOAs4° C■ TCL SVOAs4° C■ TCL Pesticides/PCBs4° C■ TAL Metals4° C	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes: CLP # - Cww 84 +	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes: CLP # - Cww 84 + MCYB 98	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes: CLP # - Cww 84 + MCYB 98	
Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Cyanide Duplicate Sample Taken Observations and Notes: CLP # - Cww 84 + MCYB 98 collected from "Itot Spot" (netal detector) ~ 60' South east of	
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken Observations and Notes: CLP # - Cww 84 +	

ONIGNA

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SITE NAME: 12th Street Landfill SAMPLE No.: <u>TS-SS-04</u> DATE: 31 August 1999 PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: ■ Surface Soil □ Subsurface Soil □ Sediment □ Waste □ Other_ Color: Sample Method: Black Disposable Trowel and Aluminum Pan Description: Depth Sampled: Fine Silt - Some organics 1 to 6 inches below ground surface Sample Date and Time: 8/31/99 at **0920** Sampled by: Signature(s): MM Manths' **GPS** Coordinates: Sample Type Low Concentration North: N/A ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Preservative Sample Location Map: Analysis TCL VOAs 4° C 4°C See Sample Location Map in Trip Report. TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide ☐ Duplicate Sample Taken **Observations and Notes:** CLP# - CWW 85 + MCYB99 Collected from drainage ditch leading from dram cluster area. P10: 0.0 /pm

ORIGINAL

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SITE NAME: 12th Street Landfill SAMPLE No.: TS-SS-05 PCS No.: <u>54</u>72 DATE: 31 August 1999 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: ■ Surface Soil □ Subsurface Soil □ Sediment □ Waste □ Other Color: Sample Method: Black (dork brown) Description: SIH - Some Organics Disposable Trowel and Aluminum Pan Description: Depth Sampled: 1 to 6 inches below ground surface Sample Date and Time: 0930 8/31/99 at Sampled by: Signature(s) Months **GPS** Coordinates: Sample Type North: N/A Low Concentration ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C TCL VOAs See Sample Location Map in Trip Report. 4° C TCL SVOAs 4°C TCL Pesticides/PCBs 4° C TAL Metals 4°C Cyanide Duplicate Sample Taken FD-01 **Observations and Notes:** CLP#- CWW86 + MCYCØØ collected from south side of drom cluster area PID = 0.0 ppm RAD = 6 ma/Hr.

ORIGINAL.

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SITE NAME: 12th Street Landfill SAMPLE No.: <u>TS-FD-01</u> DATE: 31 August 1999 PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: Surface Soil Subsurface Soil Sediment Waste Other Sample Method: Color: Black (dark brown) Disposable Trowel and Aluminum Pan Description: Depth Sampled: 1 to 6 inches below ground surface Silt- Some organics Sample Date and Time: 8/31/99 at 0000 Sampled by: Signature(s): Paul DE MARKE **GPS** Coordinates: Sample Type Low Concentration North: N/A ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C TCL VOAs 4° C See Sample Location Map in Trip Report. TCL SVOAs ■ TCL Pesticides/PCBs 4° C 4° C TAL Metals 4° C Cyanide Duplicate Sample Taken 73-55-05 **Observations and Notes:** CLP#- CWW88 + MCYC 02 collected from south side of drom closter area. PID: U.O Join RAD = 6mn/HE

ON CINA

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SITE NAME: 12th Street Landfill SAMPLE No.: <u>75 - 5B - 01</u> **DATE: 31 August 1999** PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: □ Surface Soil ■ Subsurface Soil □ Sediment □ Waste □ Other Color: multi colored: Sample Method: gold, brown, green, & white Disposable Trowel and Aluminum Pan Description: Depth Sampled: b' below ground surface Chrystaline ponder mixed with dark brown Sample Date and Time: 8/31/99 at 1340 Silt (soil). Sampled by: Signature(s): Poul D = MIMMO **GPS** Coordinates: Sample Type North: N/A Low Concentration ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Preservative Sample Location Map: **Analysis** 4° C TCL VOAs See Sample Location Map in Trip Report. 4° C TCL SVOAs 4° C TCL Pesticides/PCBs TAL Metals 4° C 4° C Cyanide ☐ Duplicate Sample Taken **Observations and Notes:** CLP#- CWW9/ + collected from Test Pit-1

Collected from backhoe

bucket.

PID= 0.0 pom

PAGN

SOIL/SEDIMENT SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Landfill SAMPLE No.: 75-58-02 DATE: 1 September 1999 PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL:] ☐ Surface Soil ☐ Subsurface Soil ☐ Sediment ☐ Waste ☐ Other Color: Sample Method: Grayish Disposable Trowel and Aluminum Pan Description: Depth Sampled: Sandy material (next to metal objects) Also contains rags with 6.5 670 below ground surface Sample Date and Time: 9/1/99 at 0850 Sampled by: solvent type odors. Signature(s): Paul D. 5 MPM/Ht? **GPS Coordinates:** Sample Type North: N/A Low Concentration ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Preservative Sample Location Map: **Analysis** 4° C TCL VOAs 4° C See Sample Location Map in Trip Report. TCL SVOAs **I** TCL Pesticides/PCBs 4° C 4° C **TAL** Metals 4° C Cyanide collected From Test P.+ H2 ☐ Duplicate Sample Taken **Observations and Notes:** CLP # - CWW92 + collected from Test Pit # 2 collected from backhal

bucket.

ORIGINA.

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SITE NAME: 12th Street Landfill SAMPLE No.: <u>75-58-03</u> DATE: 1 September 1999 PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: (b) (4) ☐ Surface Soil ☐ Subsurface Soil ☐ Sediment ☐ Waste ☐ Other_ Color: Sample Method: Orange Disposable Trowel and Aluminum Pan Description: Depth Sampled: Cinders + ash 7' below ground surface Sample Date and Time: 9/1/99 at 1340 Sampled by: Signature(s): Part S. MPMM **GPS Coordinates:** Sample Type North: N/A Low Concentration ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C TCL VOAs 4° C See Sample Location Map in Trip Report. TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide ☐ Duplicate Sample Taken Observations and Notes: CLP # - CWW93 + collected from Test P.t- 44 collected from backhal

PID = 0.0 ppm

OR GINER

TEST PIT GROUNDWATER SAMPLE LOG

SITE NAME: 12th Street Landfill	SAMPLE No.: <u>75 - TP-03- W</u>
PCS No.: <u>5472</u> DATE: <u>1 September 1999</u>	
WEATHER: Partly sunny, warm, temperatures in the n	nid 70°s, and windy.
SATA PERSONNEL: (b) (4)	

Sample Method:	Color: Clear latter filtering)
Peristaltic Pump with Disposable PE	Clear (arts (T)
Tubing and 0.45 micron filter.	
Depth Sampled:	Description:
7.5 feet below ground surface.	
Sample Date and Time:	petroleum type odors
9/1/99 at 1120	petroleum type odors oily shien on Surface
Sampled by:	Sulfur odors.
(b) (4)	Sultur oders.
Signature(s):	·
Pand m. DE Mil Whatt	
Sample Type	GPS Coordinates:
■ Low Concentration	North: N/A
☐ High Concentration	
■ Grab	West: N/A
Analysis Preservative	Sample Location Map:
■ TCL VOAs 4° C	ŕ
■ TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL Pesticides/PCBs 4° C	
TAL Metals HN03 & 4° C	
☐ Cyanide NaoH + 4° C	1
☐ Dioxins/Furans 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
CLPA- CWW97 +	
mc4C10	
MCTCIO	
OT HO	
collected from Test PiT-43	
	•

SOIL/SEDIMENT SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Landfill SAMPLE No.: 75 - AM - 01 DATE: 31 August 1999 PCS No.: 5472___ WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: (b) (4) □ Surface Soil □ Subsurface Soil □ Sediment □ Waste ■ Other Ash-like material Color:\ Sample Method: white Disposable Trowel and Aluminum Pan Depth Sampled: exposed on creek bank Description: Ash like material (founders) 8' below ground surface (top bank) Sample Date and Time: 8/31/99 at 0840 Sampled by: Signature(s): **GPS Coordinates:** Sample Type North: N/A ☐ Low Concentration ☐ High Concentration Grab West: N/A ☐ 5-Point Composite Sample Location Map: Analysis Preservative 4° C TCL VOAs 4° C TCL SVOAs See Sample Location Map in Trip Report. 4°C TCL Pesticides/PCBs TAL Metals 4° C 4° C Cyanide ☐ Duplicate Sample Taken **Observations and Notes:** Ash-material #1

ON CINA

SOIL/SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>TS-Am-02</u>
PCS No.: 5472 DATE: 31 August	1999
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
□ Surface Soil □ Subsurface Soil □ Sec	liment
Sample Method:	Color: white
Disposable Trowel and Aluminum Pan	
Depth Sampled: Exposed on creek back	Description:
8' below ground surface (raports	Ash-like material
Sample Date and Time: 8/31/99 at 0845	Ash-like material (fine + powdery)
Sampled by:	
(b) (4)	
Signature(s):	
Sample Type	GPS Coordinates:
■ Low Concentration	North: N/A
☐ High Concentration	
■ Grab	West: N/A
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
■ TCL VOAs 4° C	
■ TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
TAL Metals 4° C	·
TAL Metals 4° C	
TAL Metals 4° C	
TAL Metals 4° C Cyanide 4° C	
TAL Metals 4° C Cyanide 4° C Duplicate Sample Taken FD -03	
TAL Metals 4° C Cyanide 4° C	
TAL Metals Cyanide Cyanide 4° C Duplicate Sample Taken FD-03 Observations and Notes: A54-matercal #2 Collected Gran beneath	
TAL Metals Cyanide Cyanide 4° C Duplicate Sample Taken FD-03 Observations and Notes: As4-material #2 Collected Gran beneath exposed dran cluster	
TAL Metals Cyanide Cyanide 4° C Duplicate Sample Taken FD-03 Observations and Notes: As4-matercal #2 Collected Gran beneath	

ORIGINAL.

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SAMPLE No.: **75-66-03** SITE NAME: 12th Street Landfill **DATE: 31 August 1999** PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: □ Surface Soil □ Subsurface Soil □ Sediment □ Waste ② Other Ash-like material Color: Sample Method: white Disposable Trowel and Aluminum Pan Depth Sampled: Exposed on creek bank Description: Ash-like material (fine + powdey) & below ground surface (roof best Sample Date and Time: 8/31/99 at 0000 Sampled by: Signature(s): Paul m. **GPS** Coordinates: Sample Type North: N/A ☐ Low Concentration ☐ High Concentration West: N/A Grab ☐ 5-Point Composite Sample Location Map: **Preservative** Analysis 4° C TCL VOAs 4°C See Sample Location Map in Trip Report. TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide Duplicate Sample Taken 75-AM-02 **Observations and Notes:** Field Ouplicate

O. P. C. N. A.

SATA REGION III SOIL/SEDIMENT SAMPLE LOG SHEET SAMPLE No.: TS- AM-03 SITE NAME: 12th Street Landfill **DATE: 31 August 1999** PCS No.: 5472 WEATHER: Partly sunny, warm, temperatures in the mid 70°s, and windy. SATA PERSONNEL: (b) (4) □ Surface Soil □ Subsurface Soil □ Sediment □ Waste ■ Other Ash-like material Sample Method: (Backhoe bucket) Color: white Disposable Trowel and Aluminum Pan Description: Depth Sampled: 5406' fine - powdery material 1-to 6 inches below ground surface Sample Date and Time: 8/31/99 at 1320 ASG-like. Sampled by: Signature(s): Paul M. C **GPS Coordinates:** Sample Type North: N/A ☐ Low Concentration ☐ High Concentration West: N/A **☑** Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C TCL VOAs See Sample Location Map in Trip Report. 4° C TCL SVOAs 4°C TCL Pesticides/PCBs 4° C TAL Metals 4°C Cyanide ☐ Duplicate Sample Taken **Observations and Notes:** Ash-makrial =3 collected from Test Pit # 1 PID = 0.0 ppm

ORICHA

SOIL/SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>75- 0C-01</u>
PCS No.: 5472 DATE: 1 Septemb	er 1999
WEATHER: Partly sunny, warm, temperatur	res in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil ☐ Sec	liment D Waste D Other Drum confer
Sample Method: (Saw was also used)	Color: Black outer lager
Disposable Trowel and Aluminum Pan	brown inside
Depth Sampled: 00	Description:
Drum exposed tellow ground surface.	Rubber Substance
Sample Date and Time:	1 10661 3065 Fance
9/1/99 at 0805	
Sampled by:	
(b) (4)	
Signature(s):	
Sample Type	GPS Coordinates:
☐ Low Concentration	North: N/A
High Concentration	
🖺 Grab	West: N/A
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
TCL VOAs 4° C	
TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL Pesticides/PCBs 4° C	·
TAL Metals 4° C	·
	•
☐ Duplicate Sample Taken	
Observations and Notes:	
Orum contents #01	·
collected from Drum #1	
	<u> </u>
PID = 0.0 ppm	

ON Cha

SOIL/SEDIMENT SAMPLE LOG SHEET

	SAMPLE No.: <u>75-06-02</u>
PCS No.: <u>5472</u> DATE: <u>1 Septemb</u>	<u>er 1999</u>
WEATHER: Partly sunny, warm, temperatur	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil ☐ Sec	liment Waste Other Ocon Confer
Sample Method: (Backhoe bocket) Disposable Trowel and Aluminum Pan	Color: Grayish
Disposable Hower and Aluminum Fair Depth Sampled:	Description:
below ground surface	1 *
Sample Date and Time:	Silt-with rubber pieces
9/1/99 at /350	rags of soment odors.
Sampled by:	(naphthalen odors, also)
(b) (4)	'
Signature(s):	
Sample Type	GPS Coordinates:
☐ Low Concentration	North: N/A
☐ High Concentration	
☑ Grab	West: N/A
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
TCL VOAs 4° C	
	G. G. J. L. div. Maxin Trin Donard
TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.
TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Cyanide Duplicate Sample Taken Observations and Notes:	See Sample Location Map in Trip Report.

OR CARE

SOIL/SEDIMENT SAMPLE LOG SHEET

	SAMPLE No.: <u>73-00-03</u>
PCS No.: <u>5472</u> DATE: <u>1 Septemb</u>	
WEATHER: <u>Partly sunny, warm, temperatur</u>	es in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil ☐ Sec	liment D Waste D Other Down Contest
Sample Method:	Color:
Disposable Trowel and Aluminum Pan	-Dark -
Depth Sampled: Exposed drum on	Description:
below ground surface	Mags black to see S.G.
Sample Date and Time:	Rags, black tarry sub- Stance and burnt mut- erial.
9/1/99 at /4/00	Stanck and burnt mat-
Sampled by:	erial.
Signature(s)	
fant des MAMANT	GPC C 11 /
Sample Type	GPS Coordinates:
Low Concentration	North: N/A
High Concentration	777 NT/A
Grab	West: N/A
5-Point Composite	C I V A NA
Analysis Preservative	Sample Location Map:
	· · · · · · · · · · · · · · · · · · ·
TCL VOAs 4° C	Car Canala I anglian Man in Thin Donort
TCL VOAs 4° C TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide 4° C 4° C 4° C	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Duplicate Sample Taken	See Sample Location Map in Trip Report.
TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Cyanide Duplicate Sample Taken Observations and Notes:	
TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Cyanide Duplicate Sample Taken Observations and Notes:	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals TOUR Contents TOUR Contents TAL Metals TOUR Contents TAL Metals TOUR Contents TOUR Contents TOUR Contents TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals TOUR Contents TOUR Contents TAL Metals TOUR Contents TAL Metals TOUR Contents TOUR Contents TOUR Contents TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Toyanide Observations and Notes: Oran contents # 3 collected from Dran # 2	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Toyanide Observations and Notes: Oran contents # 3 collected from Dism# 2 jointed in drainage detech	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Toyanide Observations and Notes: Oran contents # 3 collected from Dran # 2	
TCL VOAs TCL SVOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals TAL Metals Toyanide Observations and Notes: Oran contents # 3 collected from Dism# 2 jointed in drainage detech	

SATA REGION III

SOIL/SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12 th Street Landfill	SAMPLE No.: <u>TS- DC-04</u>
PCS No.: 5472 DATE: 1 Septem	ber 1999
WEATHER: Partly sunny, warm, temperatu	res in the mid 70°s, and windy.
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☐ Subsurface Soil ☐ Se	diment Waste Other Orum Confe
Sample Method: (Backhoe bucket)	Color:
Disposable Trowel and Aluminum Pan	Description: Clayex Substance with:
Depth Sampled:	Description: Clayer Substance with:
9' below ground surface	Steel wire/(asie
Sample Date and Time: 9/1/99 at /425	(changed odoes
	(Chemical odors 55-gal bung drum)
Sampled by: (b) (4)	by gar bong siral
Signature(s):	1 `
Paula MI MART	
Sample Type	GPS Coordinates:
☐ Low Concentration	North: N/A
High Concentration	
■ Grab	West: N/A
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
■ TCL VOAs 4° C]
TCL SVOAs 4° C	See Sample Location Map in Trip Report.
TCL Pesticides/PCBs 4° C	<u>]</u>
TAL Metals 4° C	
Cyanide 4° C	
	4
	1
<u> </u>	4
☐ Duplicate Sample Taken	-
Observations and Notes:	
Drum contents #4	
710 = 2,000 PPM	
collected from XTP-E	
(bump in path leading to drum cluster area).	

Attachment 3
Sample Data Summary

ORIGINA

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

- J = Analyte present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

- NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.
- Q = No analytical result.

DATA SUMMARY FORM: VOLATILES Case #: 27341 SDG: CWW82 Number of Soil Samples: 11 Site: 12TH STREET LANDFILL Number of Water Samples: 0

Lab.: IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	- 1
Field QC:								Fld. Dup. C	ww88		.wws6
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:		ua/Ka		ug/Kg		ua/Ka		ug/Kg		ua/Ka	- 1
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	l
pH:] -								-	- 1
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	- 1
Volatile Compound	CROL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10					7. (3.4.6)					
VINYL CHLORIDE	10									L	11
CHLOROETHANE	100						- 1		Contract of the Contract of th		建
METHYLENE CHLORIDE	10	5	В	6	В	4	В			4	В
ACETONES	10		SE				4	100		To the second	1.5
CARBON DISULFIDE	10		1				L				L
1,1-DICHLOROETHENE	10:							(USIGNE	發		
1,1-DICHLOROETHANE	10								L	L	LI
TOTAL 1,2-DICHLOROETHENES	10		201-6						-		
CHLOROFORM	10							,		l	
1,2-DICHLOROETHANE	10										-0U
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10							2			
CARBON TETRACHLORIDE	10.				L						
BROMODICHLOROMETHANE	10		ا معالیت از از ا ادرست		<u>n</u> -		8				
1,2-DICHLOROPROPANE	10			10001	No. 37	speciments of an inter-		ar agentus e		AMORA II II II II I	
CIS-1,3-DICHLOROPROPENE	10		भागकः । 1485 : ।				1.75°				200
TRICHLOROETHENE	10				n Series			rando.			
DIBROMOCHLOROMETHANE	10		-					Section 1			
1,1,2-TRICHLOROETHANE	10		1	1							71, 714.00
BENZENE	10		123					S= -		·	55 77 A
TRANS-1,3-DICHLOROPROPENE	10				l I		N25 47		1000		
BROMOFORM	10				547			<u> </u>	LAS .		
4-METHYL-2-PENTANONE	. 10				l l					ni den e	
2-HEXANONE	10-		V.	PAL		A Maria Tanana Dispersional Tanana Dispersional Tanana	22.	STATE OF THE STATE		renz. :	
TETRACHLOROETHENE	10							Trans.	,	-	6557°
1,1,2,2-TETRACHLOROETHANE	10	1 mg/m - 1 1 mg/m - 1 10 mg/m - 1	i.		70. 2006 - 1		£500		1.3.5°		
TOLUENE	10					C		The second section is a	ranja, e e e e		C. 20 5.5.
CHLOROBENZENE	10-	A Section 1		in employed the control of			*****				3000
ETHYLBENZENE	10		l		.,,	(many)		Agoga	£2.22		
STYRENE	10					المقفد المحدد					
XYLENE (TOTAL)	10		l						<u> </u>	<u></u>	

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: VOLATILES

Page _2__ of _18_ _ .

Case #: 27341

SDG: CWW82

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CWW91	-	CWW92		CWW93		CXJ87		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02 TS-SS-0			
Field QC:											
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:	·	ua/Ka		ua/Ka		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture:		36		33		2 .		27		27	
pH:											
Dilution Factor:		1.0		1.0 / 10.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10						L				
BROMOMETHANE	10%										
VINYL CHLORIDE	10			The second secon							
CHLOROETHANES	10				200					100	
METHYLENE CHLORIDE	10	11	В	9	В	3	В	4	B	7	В
ACETONE	10x									100 miles	
CARBON DISULFIDE	10	المسجدين بمست	ord State	Tit before which describes the page.	ALTERNA	AT 322 - 1-102-1722	2000	NEW YORK 1955		Kaleboor -	
1,1-DICHLOROETHENE	10 ±										
1,1-DICHLOROETHANE	10	Amin'	ler with	harinanan andifitat	6.44.1.	AND THE PROPERTY OF THE	D200		سفون		
TOTAL 1,2-DICHLOROETHENE	10			nest Compa	٠	TA			X 2		
CHLOROFORM	10	te electric en consission o	SERVICE S	n to approximate to the con-	- COO 11	277	135 H. S. C.				
1,2-DICHLOROETHANE	10	lander of the state of the stat			. عضن			22.12.0a.			
2-BUTANONE	10		955 4 11	المنتاء بالماعد مناشات	CONT.	PROPERTY AND	EYB:230	Marine Service			·
1,1,1-TRICHLOROETHANE	10		NG SAPE TO Make the				634		A 32		25
CARBON TETRACHLORIDE	10			one and recipion	Barrier .	نفذة فقالمشده ومغذو	- Carrier			300552557	-
BROMODICHLOROMETHANE	10		iliani New se	a second	£ 4.50	ALL LAN					ist:
1,2-DICHLOROPROPANE	10	1 .		rwa ≃ ora),Tareji	restrantes	1000	erestation (c. for	5200	245 0 00442	
CIS-1,3-DICHLOROPROPENE	10	f .			1975			100 m	136997		5
TRICHLOROETHENE	10	en.					52),158**	PE Description	المقلوب	Property (C)	270
DIBROMOCHLOROMETHANE:	10] .		•		1 1			1494	egitica.	A 199
1,1,2-TRICHLOROETHANE	10			Į.	Į.	, .		277		grand of	
BENZENE	10	1	1	1	ł		list en	Kirt -		12 L	ľ
TRANS-1,3-DICHLOROPROPENE	10		<u>.</u>	· .			N. 28.	Trans.	****	eren (ĢΞ.
BROMOFORM	.10	المراكبة المتلقة	~ .	10.0	~ C	Marie Carlo Service	1100	Marine Service	1.20	Easter 1 /	
4-METHYL-2-PENTANONE	10		l	Z A tolog	\$40.00	r kajirov nas vijes Listo – kišedio	rt non	1.00 mm	77 134,74	148 (1 m)	
2-HEXANONE	10:0	£3.	177	/ Je		eispeit.	200	A CONTRACTOR	Shin row		
TETRACHLOROETHENE	10	STORY OF THE			1, 17	14 1 miles (14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			• ্ . (বুলুডু:		.
1,1,2,2-TETRACHLOROETHANE		1 2 2 4 1 .		1900 +	¥ 8.			SOUTH PLANE.	125	The section was a second	1
TOLUENE	10	73. S.		1900 +	27.47	Programme Const.		a production		general de la companya de la company	1.3
CHLOROBENZENE	10	Same of the			la Mesi	kirjing yi danata		Serve	afi	TERMINET. The Street	
ETHYLBENZENE	10	AND THE CO.	2		777						
STYRENE	10			combine at a mo	MACA	Tarian's province of the	e chia	A CONTRACTOR OF THE SECOND		: Participan de la company	
XYLENE (TOTAL)	10	<u> </u>		ــــــــــــــــــــــــــــــــــــــ				NACCATIVE			

CRQL = Contract Required Quantitation Limit

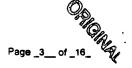
To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/.00)

+ = Result reported from diluted sample analysis.

SEE NARRATIVE FOR CODE DEFINITIONS

Revised C3/99

DATA SUMMARY FORM: VOLATILES



Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02			;	<u></u> .					
Field QC:								·			
Matrix:		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999		,						Ē	
Time Sampled :		09:00				ĺ					
%Maisture :		22									
pH:											
Dilution Factor :		1.0									
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANEL	10							is no rest			96
VINYL CHLORIDE	10		``						L	l	
CHLOROETHANE	10		200					300		200	
METHYLENE CHLORIDE	10							<u></u>	L		L
ACETONE	10	STORY OF THE STORY							12-22		25.2
CARBON DISULFIDE	10				AF4 1 800 -					71000	
1,1-DICHLOROETHENES	10:										A
1,1-DICHLOROETHANE	10					ANTE CONTRACT AND A			L.,		L
TOTAL 1,2-DICHLOROETHENE	10								Contract		(2)
CHLOROFORM	10						<u></u>		L		
1,2-DICHLOROETHANE	<u></u>		100 m				200				
2-BUTANONE	10				· annual ·	Name of the Company of the					
1,1,1-TRICHLOROETHANE	10		2	- 7	- CT	3		- 1 m		24	
CARBON TETRACHLORIDE	10					.	L			A CONTRACTOR AND	
BROMODICHLOROMETHANE	10		740c.		- Table 1		anda.				70.0
1,2-DICHLOROPROPANE	10					Minamen any other Priva				Office And	CONTROL OF
CIS-1,3-DICHLOROPROPENE	10	. '		標 公 **** *******************************							
TRICHLOROETHENE	10							Serbano in the		مادرو.	
DIBROMOCHLOROMETHANE	10			11	1 45 1 45			Labelle - All of			
1,1,2-TRICHLOROETHANE	10				İ		7.1				
BENZENE	. 10		: i	***		Section 1	C27 (55)	ation is	ž v	ŀ	1.5
TRANS-1,3-DICHLOROPROPENE	10							National Control		L	- 95
BROMOFORM	10			Action to the				Section 1	4.5	is,	
4-METHYL-2-PENTANONE	10	i	l Leonare et al			Language Control	LAST TWANS	regreta susur, in	STANS.	personal and a	F 4560 /
2-HEXANONE	<u>10 </u>	3×12	/d 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	364			Carrier Co.	125.4		1
TETRACHLOROETHENE	10			.	54.			an principal derivation	27.2 % T	ļ.,	11. 4). ₇ 3
1,1,2,2-TETRACHLOROETHANE	,, 10 ·	Da. 1			S		٠٠٠ أحد الم			(\$1) GARD	
TOLUENE	10	l				l .				NAME OF THE PARTY OF	25.Km
CHLOROBENZENE	10		- باد			2 62 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		A CONTRACTOR OF THE PARTY OF TH	1	Addition that have been	-
ETHYLBENZENE	10		L.		, 100 mm .	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(C) dans	manager and the state of the st	A PROPERTY AND ADDRESS OF	gregovik sam (gr. 17	2725000
STYRENE	10		Œ	region — ser Little i terroret						प्रकृतिक विकास	
XYLENE (TOTAL)	10		L :								TIONS

Revi: 1d 09/99

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

DATA SUMMARY FORM: VOLATILES

Page _4__ of _16__

Case #: 27341

SDG: CWW89

Number of Soil Samples: 0

Lab.: IEANJ

Site: 12TH STREET LANDFILL Number of Water Samples: 4

Sample Number :		CWW89		CWW90		CWW96		CWW97			
Sampling Location :		TS-FB-01		TS-RB-01	-	TS-TB-01		TS-TP-03W	,		
Field QC:		Field Blank		Rinsate Bla	nk	Trip Blank					
Matrix:		Water	Water			Water		Water			
Units:		ug/L		ug/L	ug/L		ug/L				
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		09/01/1999			
Time Sampled:		15:30		17:15		08:00		11:20		İ	
%Moisture :				N/A		N/A		NA			
pH:										1	
Dilution Factor:		1.0		1.0	·	1.0		1.0			
Volatile Compound	CROL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10				i						L.
BROMOMETHANE	10:		KS STA					11.0			
*VINYL CHLORIDE	10	ſ			<u> </u>	L	L	<u>L</u>	<u>L</u> .		<u></u>
CHLOROETHANE	10									推 。	
*METHYLENE CHLORIDE	10	l	L		<u></u>						
ACETONE	10+	93.							2	70 F 10 F	
CARBON DISULFIDE	10	ł	.			CONTRACTOR AND ADDRESS	<u> </u>			SECOLA MESSENATA	
*1,1-DICHLOROETHENE	<u>.</u> 10-		3392		CZ.						
1,1-DICHLOROETHANE	10		1 .	l			<u> </u>	***************************************	L		
*TOTAL 1,2-DICHLOROETHENE	10	ļ	77 /	eriter i Tirti. Prikarita	دراند دراندخت		1		115.2		
CHLOROFORM	10				L						
*1,2-DICHLOROETHANE	10				高 蒙。		学型				
*2-BUTANONE	10	110		110	L.,	120			TOTAL PARTY.	TOTAL STREET	100000
*1,1,1-TRICHLOROETHANE	10	ļ			200			2000			720
*CARBON TETRACHLORIDE	10	1.		destant was a series				And the second second	भागक राज्या (Single many or a co	September 1
BROMODICHLOROMETHANE:	10]``			\$250 m		28.		28.735 24.05**		
*1,2-DICHLOROPROPANE	. 10		l			references and a lan		व्यक्तिक व सक्कर		man's and	₹75°.
CIS-1,3-DICHLOROPROPENE	10					[] [] [] [] [] [] [] [] [] [] [] [] [] [4.		
TRICHLOROETHENE	10	I	l	l			. ,,				
DIBROMOCHLOROMETHANE	10	į	ł						ļ		1
1,1,2-TRICHLOROETHANE	10	į		ļ	1	1					F-1, 1, 1
*BENZENE	10	•				ł		and -	ļ	ļ	1
TRANS-1,3-DICHLOROPROPENE	10		1]		<u>.</u>				.	1
BROMOFORM	10:	ł		Į.		2.3	O.O.		.:::		
4-METHYL-2-PENTANONE	10	1			1.,		-	SERVICE SERVICES	p# 1 15		
2-HEXANONE	10	arca 14.	1	9	J	.14		132.	.2	F.: .	1
*TETRACHLOROETHENE	10		1	L		mana a service		general el contrare	412 m. 1		1.0
1,1,2,2-TETRACHLOROETHANE	10				X :				Jest 190		7.4
*TOLUENE	10			l		Special Control	77.00	Barrier 1 and 12	Pikara	and the second	44,555
*CHLOROBENZENE	101										
*ETHYLBENZENE	10	l				Est report your unsystem to the	101£ 271	المادانية المارة المارية المارية	<u> </u>	4500	٠,,,,
*STYRENE	10				1	California (Has.	Langue (1	
*XYLENE (TOTAL)	10	<u> </u>			<u> </u>	<u> </u>		NAPRATIVE		<u> </u>	<u> </u>

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

To calculate sample quantitation limits mult_uly the CRQL by the Dilution Factor

Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Number of Soil Samples: 11
Number of Water Samples: 0

CWW62 CWW84 **CWW85 CWW86 CWW88** Sample Number : TS-SS-03 TS-SS-04 TS-SS-05 TS-FD-01 TS-SED-01 Sampling Location: Fld. Dup. CWW88 Fld. Dup. CWW86 Field QC: Soil Soil Soil Soil Soil Matrix: ug/Kg Units: ug/Kg ug/Kg ug/Kg ug/Kg 08/31/1999 08/31/1999 08/31/1999 08/31/1999 08/31/1999 Date Sampled: 09:20 09:30 00:00 08:15 09:10 Time Sampled: %Moisture: 27 21 28 22 22 pH: 7.3 8.0 7.5 7.6 7.7 1.0 2.0 10 1.0 Dilution Factor: 10 Flag CRQL Result Flag Result Flag Result Flag Result Flag Result Semivolatile Compound В 330 В PHENOL BIS(Z-CHLOROETHYL)ETHER 330 2-CHLOROPHENOL 330 1,3-DICHLOROBENZENE 330 330 1,4-DICHLOROBENZENE W. 1,2-DICHLOROBENZENES 330 330 2-METHYLPHENOL 2.2-OXYBIS(1-CHLOROPROPANE) 330 4-METHYLPHENOL 330 9 14 330 N-NITROSO-DI-N-PROPYLAMINE 330 **HEXACHLOROETHANE** 330 NITROBENZENE 32. ISOPHORONE 330 2-NITROPHENOL ... 330 2.4-DIMETHYLPHENOL 330 BIS(2-CHLOROETHOXY)METHANE 330 2,4-DICHLOROPHENOL 330 330 1.2.4-TRICHLOROBENZENE 120 J 330 36 NAPHTHALENE : .: 330 4-CHLOROANILINE **HEXACHLOROBUTADIENE** 330 330 4-CHLORO-3-METHYLPHENOL 31 62 55 2-METHYLNAPHTHALENE 330 HEXACHLOROCYCLOPENTADIENE .. 330 330 2.4.6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL.... 830: 330 2-CHLORONAPHTHALENE * 830 2-NITROANILINE 51 330 DIMETHYLPHTHALATE J... 120 330 40. J. L ACENAPHTHYLENE

CRQL = Contract Required Quantitation Limit

2.6-DINITROTOLUENE

3-NITROANILINE

ACENAPHTHENE

2,4-DINITROPHENOL

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

330 830

330

Revised 09/99

180

Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW88		CWW88		
Sampling Location :		TS-SED-01		TS-SS-03 Soil		TS-SS-04		TS-SS-05		TS-FD-01		
Field QC:								Fld. Dup. C	88WW	Fld. Dup. CWW86 Soil		
Matrix:		Soil				Soil		Soil				
Units:		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999		
Time Sampled :		08:15		09:10		09:20		09:30		00:00	:	
%Moisture:		27		21		28		22		22		
pH:		7.3		8.0		7.5		7.6		7.7		
Dilution Factor :		2.0		1.0		1.0		1.0		1.0		
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	
4-NITROPHENOL	830								and the same	Litera era anticana		
DIBENZOFURAN	3302		320							800		
2.4-DINITROTOLUENE	330	Termina.	77	Company of Assessment	gg gwy si'		END'S	77877 F17000EF	23 <u>235</u> 40			
DIETHYLPHTHALATE	3307		1500 (1) 100 (1) 100 (1)							-3135-00 F		
4-CHLOROPHENYL-PHENYLETHER	330			grys mens	100000000000000000000000000000000000000	A SHEET AND A SHEET AS		######################################				
FLUORENE	330	The same of			Zár.							
4-NITROANILINE	830	asr		L		Shift den Triisklingen		1999 925 1999 1999 1999 1999 1999 1999 1			-	
4.6-DINITRO-2-METHYLPHENOL	2 830E		.4.		1				195	Service Service		
N-NITROSODIPHENYLAMINE	330	1	l				Politiceron	THE BUT THE SERVE STATE	100 st -	geranderske		
4-BROMOPHENYL-PHENYLETHER	330	1 m			e Par	د سرد الم			STREET.			
HEXACHLOROBENZENE	330	<u>. </u>	l			A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		THE PERSON NAMED IN	22.00			
PENTACHLOROPHENOL	830			part del Lorden es A	a in the		THE STATE OF		CAL			
PHENANTHRENE	330	81	J	250	J	200	J	470	 ,	980	7 6 6	
ANTHRACENE.	330	35	J. A.	65	J	1405		1100	L	2309	Ĭ.	
CARBAZOLE	330	<u>l</u>		l		37	J	35	Ţ	120	J	
DI-N-BUTYLPHTHALATE	330	130	J.	63.5	, J	703	4	62	Ť	63=		
FLUORANTHENE	330	200	J	480		840		800	an eg a Gelevie	1200		
PYRENE	330	260	J	500C		990		920	giri.	140022		
BUTYLBENZYLPHTHALATE	330	55	J	71	J	100	J.	- 59	J	76	J	
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DI-N-OCTYLPHTHALATE	330	66	J	87	J.	1405	J., .	74 0	J	915	7.	
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BENZO(K)FLUORANTHENE	330 9	100	J	210	j.	570		260	وجيلي	320.	1	
BENZO(A)PYRENE	330	170	J	370	١	1000		470		630		
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DIBENZ(A,H)ANTHRACENE	330	29	J	·76	J	170	_ ا	80	J	86	J.	
BENZO(G.H.I)PERYLENE	330	55 th 92 th	J	260	J	530		270	J	320	J	

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02	į	TS-SS-01	,
Field QC:											
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH:		8.1		8.1		6.9		7.5		8.0	
Dilution Factor:		1.0		1.0 / 2.0		1.0		1.0	:	10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330	620	В							110	В
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2,4-DINITROPHENOL	830				<u> </u>		केल्यका राज्यस	Colombia Colombia			

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Page_8_ of _16_ PUCING

Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02	!	TS-SS-01	
Field QC:		i '				i					
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH:		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0 / 2.0		1.0		1.0		10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
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CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

+ = Result reported from diluted sample analysis.

Page _9_ of Giga

Case #: 27341

SDG : CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Sample Number :		CXJ69						-			
Sampling Location :		TS-SS-02									
Field QC:											
Matrix:		Soil									
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Semivolatile Compound	CROL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330										
BIS(2-CHLOROETHYL)ETHERS	330=		270		7			建			
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1,3-DICHLOROBERZERES	330.:			Andrews Services	Total .						3.25
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4-CHLOROANILINE	330	•					Control.		September,		
HEXACHLOROBUTADIENE	330	1		l	,		10.4	: L3050:			.,.
4-CHLORO-3-METHYLPHENOL	330		****	ļ			S.J.	L.D.			
2-METHYLNAPHTHALENE	330	32	J		1		Serie	Contract Contract	14.64	en en en en en en en en en en en en en e	yeur.
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2,4,6-TRICHLOROPHENOL	330	many en				e springer and the	PROFESSION.	Distriction of the	e m	The same of the same	Page 1
2,4,5-TRICHLOROPHENOL	830	<u>essance</u>	Ar 44		Name App.	Links - Te ye	1		ille de	∯ar in a inc	
2-CHLORONAPHTHALENE	330	त्रस्ट्रहरू		75	٠ ۳ مېد	er mar .		ng more in a suprement of Charles in the	1.77		
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3-NITROANILINE	830			} .	نستائيد	STATE OF THE STATE		2	(C)	A Salar Landing	٠ خدد
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2,4-DINITROPHENOE	830	<u> </u>		<u> </u>	<u> </u>	<u> </u>		MADDATIVE			

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)



Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

-Sample Number :		CXJ69									
Sampling Location :		TS-SS-02		İ							
Field QC:				1							
Matrix:		Soil				:				i	
Units:		ug/Kg		1							
Date Sampled :		08/31/1999				1					
Time Sampled :		09:00				1		ł		l	
%Moisture :		22								ĺ	
pH:		7.8								}	
Dilution Factor:		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830				<u></u>		<u> </u>				<u> </u>
DIBENZOFURAN	330	4.5							20,77		35.38
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DETHYLPHTHALATE	330	No.		-			250				
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330		-		2.					3.60	10.056
4-NITROANILINE	830			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	-	APPENDING SANCES	LIBORTE	A-104-3-4-3			نــــــــــــــــــــــــــــــــــــــ
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CARBAZOLE	330			Service Service	L.,	Tomas Company	بحسيون	متلاتم والمساوعواط	18025.5 ·	738 700 777333	
DI-N-BUTYLPHTHALATE	330	49	J.				100		6.50	Secondary.	SEC.
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PYRENE	330	490		ļ	٠.	E e at 1		Land 1		44 ² 1	
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3,3'-DICHLOROBENZIDINE	330.	•		ŀ		1		L. 5	F -	name	i Ett
BENZO(A)ANTHRACENE	330	330	J	.] .	1	47	11		
CHRYSENE	330	260	l 1	} ·		ļ.	Į	``	1		AV 1
BIS(2-ETHYLHEXYL)PHTHALATE	330	1400	l; .	ļ			4200	2000			races of
DI-N-OCTYLPHTHALATE	330:	150	J	ł	1	1	12005 1300			Faltinai 12 1	AB:
BENZO(B)FLUORANTHENE	330	510				s ₁ ,	bergaren er		6 **		r <u>.</u> 544
BENZO(K)FLUORANTHENE	330%		J	1.		F-,	(1.50 (1.41)			150° () 10	22.5
BENZO(A)PYRENE	330	300	Ţ	DY () :	are r		Teya eta.	genera.		entropy of the second	
INDENO(1,2,3-CD)PYRENE	≥ 330	200	1	F *	e ·	• 7	. 1925				# S
DIBENZ(A H)ANTHRACENE	330	59	J		Uni	1177	76 c		ew.	rggarte e r e.	168
BENZO(G.H.I)PERYLENE	330	180	J.	<u> </u>	<u>f</u>	<u> </u>		<u> </u>	1	<u> </u>	Tanian,

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Page 11_ of _16_

Case #: 27341

SDG: CWW89

Number of Soil Samples: 0

Site: 12TH STREET LANDFILL Lab.: IEANJ

Number of Water Samples: 3

CWW97 Sample Number: **CWW89** CWW90 Sampling Location: TS-FB-01 TS-RB-01 TS-TP-03W Field QC: Field Blank Rinsate Blank Matrix: Water Water Water ua/L ug/L Units: ug/L 09/01/1999 08/31/1999 08/31/1999 Date Sampled: 11:20 Time Sampled: 15:30 17:15 N/A N/A N/A %Moisture: pH: Dilution Factor: 1.0 Flag Flag Semivolatile Compound CRQL Result Flag Result Result Flag Result Result Flag IJ PHENOL 10 BIS(2-CHLOROETHYL)ETHERS 2-CHLOROPHENOL 10 UJ 1.3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 10 IJ 1,2-DICHLOROBENZENEE 10= W. : 2-METHYLPHENOL 10 UJ E. 107 2.2-OXYBISC+CHLOROPROPANELS 4-METHYLPHENOL 10 UJ W. N-NITROSO-DI-N-PROPYLAMINE 100 UJ **HEXACHLOROETHANE** 10 10: NITROBENZENE 10 ISOPHORONE 2-NITROPHENOL 10: 2.4-DIMETHYLPHENOL 10 BIS(2-CHLOROETHOXY)METHANE 10 2,4-DICHLOROPHENOL 10 1.2.4-TRICHLOROBENZENE 10 NAPHTHALENE 10 4-CHLOROANILINE 10 **HEXACHLOROBUTADIENE** 10 4-CHLORO-3-METHYLPHENOL 10: 2-METHYLNAPHTHALENE 10 HEXACHLOROCYCLOPENTADIENE ... 10 2,4,6-TRICHLOROPHENOL 10 2,4,5-TRICHLOROPHENOL: 1.15-25 2-CHLORONAPHTHALENE 10 2-NITROANILINE 25 10 DIMETHYLPHTHALATE ACENAPHTHYLENE. . 10 10 2.6-DINITROTOLUENE 25 3-NITROANILINE: **ACENAPHTHENE** 10 25 2,4-DINITROPHENOL

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NANRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

Case #: 27341 SDG : CWW89

Site: 12TH STREET LANDFILL

Lab.: IEANJ



County Month of		CWW89		CWW90		CWW97					
Sample Number :		TS-FB-01		TS-RB-01		TS-TP-03W					
Sampling Location :		Field Blank		Rinsate Bla	.	13-11-0311					
Field QC:		Water		Water	nik.	Water					
Matrix:						ua/L					
Units:		ug/L		ug/L		09/01/1999					
Date Sampled :		08/31/1999		08/31/1999				·		ì	
Time Sampled :		15:30		17:15		11:20					
%Moisture:		N/A		NA		N/A	-		,	1	
pH:		l				4.0		•	,	1	
Dilution Factor :		1.1		1.2	-	1.0		Decut	G	Decut	Clea
Semivolatile Compound	CROL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	25		488344 48834		70933			- Carrier B		建设施 30	47.00
DIBENZOFURAN	32 102	Z Z Z									
2,4-DINITROTOLUENE	10	<u>ल्युक्त्यास्य</u>		Chips wat 1867							7
	10°C		BR**								
4-CHLOROPHENYL-PHENYLETHER	10		200				建		1997		Carry State
FLUORENE	104			44.00		Control of the last			2000		
4-NITROANILINE	25	00-1259			- F. C.			PACE E	200		
4,6-DINITRO-2-METRYLPHENOE-WILTER	25.2	MAN CONTRACT	exet.		707		127		166	No. Section 1	
N-NITROSODIPHENYLAMINE	10	r kongress ette syngster.	Y5N5;***	क्षत्त्रक्षक्षक्षत्त्रकृतः । स्राह्मक्षक्षत्त्रकृतः	3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Address Control of the	rees.				
4-BROMOPHENYL-PHENYLETHER	104	15.00 mm (4.00)	7. P. C.		dair.				-		عمد
*HEXACHLOROBENZENE	10	rosten verti blesse.	Series :		- CONT.				CONTRACT.		
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FLUORANTHENE	10	James Same	ings/gr	i arejski klasicija (region (The State of the State of the	700	an water			-
PYRENE	10:5		008: 2 A4-				e <u>e e</u> e	<u>delar</u> — la M	3-77	Billian Artic	Baller.
BUTYLBENZYLPHTHALATE	10		orensa.				athru ^{ght} .	S ANGTO D	HARE.		aArrist Ruitāl
3,3'-DICHLOROBENZIDINE	10.					Radio Carl		1947 y			6.65
BENZO(A)ANTHRACENE	10	1					l .	275.21	ļ	}	
CHRYSENE	. 10		ŀ	ļ		la de		LATE COLUMN		·-·	
BIS(2-ETHYLHEXYL)PHTHALATE	10				. g. (.	in the second		engil.			
DI-N-OCTYLPHTHALATE	10.	in a side		122 V	7.4	A Section of the second		a to	ja (***)	الداد الاداء الاحبري	E.S.
BENZO(B)FLUORANTHENE	10	awar ri ay ayta	د سيه در	er Sangara	7.34	Design to the	V 77.1	u		984	1. Let 1
BENZO(K)FLUORANTHENE	_ 10∌					With the second		William Control			45 <u>0</u> 5
BENZO(A)PYRENE	10	en gangra ys na tal			والمعارض	pulos e e e	ejem s	E-2	gar		
INDENO(1,2,3-CD)PYRENE	10°.	منتشخ	****	A Section	- اللفظ	ecolor - const.	ě:	Electric Con-	andrija andrija	Later Later	rata.
DIBENZ(A,H)ANTHRACENE	10			** # , *	\$11.46	River of Length	₫9 kg.	Difference of	1,1		gg-pi
BENZO(G.H.I)PERYLENE	10	(1994年2月)			\$1.74 s	\$5.00°	1		<u> </u>	ODE DEFINI	

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

DATA SUMMARY FORM: PESTICIDES AND PCBS

Page _13_ of _16_

Case #: 27341

Lab.: IEANJ

Site: 12TH STREET LANDFILL

SDG : CWW62

N

Number of Soil Samples: 11

Number of Water Samples: 0

ORIGINUL

Sample Number :		cww	/62		cw	W84		cw	V85		CWW8	8		cw	V88	
Sampling Location :		TS-S	ED-01		TS-S	SS-03		TS-S	S-04		TS-SS	-05		TS-F	D-01	
Field QC:											Fld. Du	IP. CV	////88	Fld. I	Dup. C'	WW86
Matrix:		Soil			Soil			Soil			Soil			Soil	•	
Units:		ug/Kg	;		ug/k	(g		ug/K	g		ug/Kg			ug/K	9	
Date Sampled :		08/31	/1999		08/3	1/1999		08/3	- 1/1999		08/31/1	1999		08/3	- 1/1999	
Time Sampled :	k .	08:15	i		09:1	0		09:20)		09:30			00:00)	
%Moisture :		27			21		İ	28			22			22		
pH:		7.3			8.0			7.5			7.6			7.7		
Dilution Factor :		0.99			1.0			1.0			1.0			1.0	_	
Pesticide/PCB Compound	CRQL	Res	sult	Flag	Re	sult	Flag	Re	sult	Flag	Resu	ult	Flag	Re	sult	Flag
ALPHA-BHC	1.7															
BETA-BHC	T	American									1000		200		2	
DELTA-BHC	1.7	L		L			L	<u> </u>						<u> </u>		L_
GAMMA-BHC (LINDANE)	1.7		3. The	2.0	-			3.0					200			35
HEPTACHLOR	1.7	L			<u> </u>									<u> </u>		
ALDRING.	1.7		32		.2.	7,6 15,003 16,00 60				1						
HEPTACHLOR EPOXIDE	1.7		0.64	J		and Fifthern								ندو وي	TIBROTA'IS.	
ENDOSULFANI	1.7:					1.1.			a.ces						C.S.	
DIELDRIN	3.3					4.9	J		9.4	J				<u> </u>	******	
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ENDRIN	3.3	Company Com	3.2	J 200124	L	2.6	J	<u> </u>	4.2	J		1.1	J		2.7	ı
ENDOSULFAN IL	3.3		5.94	- 12:	D	, L9:		-	6.Ze	4	= 22.54°		, and		200	
4,4'-DDD	3.3	1 27 45555	11			4.5		-	9.6		-),1	J	Language Com-	6.5 *•≇:∂∷	Į,
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AROCLOR-1254	33	- page 1500 and	.]					naun .		errenin i	AND SHOULD	20.7	ا ب			
AROCLOR-1260	33		170	J		68∴	J		1000	- J***		65·			68°	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Case #: 27341

SDG: CWW62

Site: 12TH STREET LANDFILL

Lab.: IEANJ

NW62

Sample Number :		CWW91		CWW92		CWW93		CXJ67		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC:											
Matrix:		Soil		Soil	-	Soil		Soil		Soil	
Units:		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	,
%Moisture:		36		33		2		21		12	
pH:		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0		1.0		0.99		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7		L	ANGERICA FLEGGES	L			0.13	J		
BETA-BHG	1.77		24.7								
DELTA-BHC	1.7									TOW - TOWNS	
GANNA BHE (LINDANE)	_ 1.7z				(1) (1) (1) (1) (1) (1)						
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4,4'-DDD	3.3	4.4	J	10	J	12	J	0.81	J EEST-00	13	1385 Year
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GAMMA-CHLORDANE	1.7	1			•	0.24	J.	12.5		5.4	J.
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CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341

Site: 12TH STREET LANDFILL

Lab.: IEANJ

SDG: CWW62

Sample Number :		CXJ69								<u> </u>	
Sampling Location :		TS-SS-02				<u> </u>					
Field QC:										<u> </u>	
Matrix:		Soil		•		ļ.				}	
Units:		ug/Kg			. ,					Ì	•
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture:		22				1					
pH:		7.8								ł	
Dilution Factor:		1.0									
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7										
BETA-BHC	216				A ST		7000				103
DELTA-BHC	1.7					L					
GAMMA BHE (LINGANE)	V 7		- C				200		400	10-12	
HEPTACHLOR	1.7					1			L		
ALDRIN		0.38			10.00	200	E			XXX S	110
HEPTACHLOR EPOXIDE	1.7				l		L		<u> </u>		<u> </u>
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4,4-DOE	_3.3	1.0.					<u> </u>	200		4	1
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CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

DATA SUMMARY FORM: PESTICIDES AND PCBS

ORIGINAL Page _16_ of _16_

Case #: 27341

SDG: CWW89

Number of Soil Samples: 0

Site: 12TH STREET LANDFILL

Lab.: IEANJ

Number of Water Samples: 3

Sample Number :		CWW89		CWW90		CWW97			i		
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W	,		-	•	
Field QC:		Field Blank		Rinsate Bla	nik	1					
Matrix:		Water		Water		Water					
Units:		ug/L		ug/L		ug/L					
Date Sampled:		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture:		0		0		0					
pH:											
Dilution Factor :		1.1		1.1		1.0					
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	0.050	The second considerable and					-				FP:S
BETA-BHC	0.050≥	A. 1. 77.72		1,553	-				160		
DELTA-BHC	0.050	1.00000 to 1.0000	Marketon - 1	·		CONTRACTOR OF THE CO	2000 Tel	THE PERSON NAMED IN COLUMN	ere de la constante	ALC: N	
'GAMMA-BHE (LINDANE)	0.050					A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	area Co		
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*TOXAPHENE	5.0	1	.		1 ,,	i	.	North Control			<i>;</i>
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*AROCLOR-1280	1.0	April 1 min		<u> </u>			o var			ODE DEEINI	

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor



GLOSSARY OF DATA QUALIFIER CODES

CODES RELATED TO IDENTIFICATION (confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

CODES RELATED TO QUANTITATION (can be used for both positive results and sample quantitation limits):

- J = Analyte Present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- Analyte present. As values approach the IDL the quantitation may not be accurate.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

DATA SUMMARY FORM: I N O R G A N I C S

Page	_1	of	3

Site Name:

12TH STREET LANDFILL

WATER SAMPLES

(ug/L)

Case #: 27341 SDG #: MCWY47 Sampling Date(s): 08/31/1999 - 09/01/1999

+ Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

	Sample No.	_MCYC03		_MCYC04		_MCYC10		l <u></u> -	!		I		1		1		[1		
	Dilution Factor	1.00		_1.00		1_1.00 / 25.	.00_		1		I		I				1	ļ			
	Location	_TS-FB-01_		_TS-RB-01_		_15-TP-03W			<u>—</u> !		<u>_</u> !		<u>—</u> !		_						
	ANALYTE	 SAMPLE IS FIELD BLAN		 SAMPLE IS RINSATE BL		 		 	 	***********	} 		 -==		 		===	 	 ===		
_	_ Aluminum	.	LUL	 	UL		_UL	 	 		 !	1	 			I				1	l
60_	_ Antimony	[3.2]	_ _B_	1	.i	[_[4.1]	_B_	11		1.	I	lI		1.		l1		II		· .	!
10_	_*Arsenic	. İ	.Ì	l	.	[_[5.2]	l	l1		İ.	İ	ll		1.		11		lI		,	I
200	_ Barium	.	.	ł	.1	[_[144]	I	ll			I	lI				l1		İI		 	I
5_	_ Beryllium	.	.1	 		l	I	ll		I.		lI			·	l1				 	I
5_	_*Cadmium	_l	.	l	.1	1	I	ll	!			ll				l1.					I
5000_	_ Calcium	.	_ _UL	I	<u> </u> _UL	319000_	I	11		!.	1	iI						اـــــا		 	I
10_	_*Chromium	_l <u></u> _	.	1	.	l	1	ll		1.				I		lI		li			
50_	_ Cobalt	.	<u> </u>	l	.	[2.5]	l	II	1		[ll				 _	I
25_	_ Copper	-\- <u></u>	_		.	\	1	ll		1.				I		lI		ll		·	I
100	_ iron	_l	.l	<u></u>	.	20800	1	ll		 1.		11		l			_	11		l	I
3_	_*Lead	40.4	_ _L_	10.4	_ _L_	5.3	 _B_	II		·	!	!	_			<u> </u>		I		l	1
5000_	_ Magnesium	<u> </u>	_ _UL		_UL	74300	I	1I		I.		11		ll		ll		1		l	<u> </u>
15_	Manganese	_	.1		_I	882	I	II		I.		I1				l1		l1		l	.
0.2	_ Mercury	_	_	<u> </u>	LUL	[_[0.11]	I	l				ÍI		il				!		l	.
40_	_*Nickel	_1	<u>- </u>	<u> </u>	.1	[18.3]	I	1 <u></u>		lI.		ll		lI		ll		<u> </u>		<u> </u>	.I
5000_	Potassium	_ _[42.5]	_	l	_	22100		I		lI.		II		l1		ll				l	.
5_	Selenium	_	_l	<u> </u>	-1	14.3	.1	l				1I		ll		ll		 	ـــــ	1	.1
10_	Silver	_	_	<u> </u>	_	.1		[ll		II		ll		11		 		<u> </u>	.l
5000_	Sodium	_ _[2880]	_ _J_	[2850]	1_1_	679000_+	_J_	 		ll.		ll			_	ll		l		<u> </u>	.
10_	_ Thatlium	_	_ _UL	1	_ _UL	·I	 _UL	1	<u> </u>			ll		l <u></u> -l		ll		 	l	1	ــــاٍ.
50_	_ Vanadium	<u> </u>	_		_1	.	.	I				<u> </u>						<u> </u>		<u> </u>	.
20_	_ Zinc	[6.0]	_ _B_	[4.4]	_ _B_	75.5	_J_	.		ll		1				ll		 		l	.
	_*Cyanide		_ _บเ	İ	_ _Սւ	-	<u> </u> _UL	1				I		<u> </u>		ll		<u> </u>	l	<u> </u>	.1
	 		_i	<u> </u>	_ _	.	.		<u> </u>	<u> </u>		<u> </u>		<u> </u>				<u> </u>		l	.

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98



Page __2__ of __3___

Site Name:

12TH STREET LANDFILL

SOIL SAMPLES

(mg/Kg)

Case #: 27341

Sampling Date(s): 08/31/1999 - 09/01/99

SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.

See dilution table for specifics.

	Sample No.	MCWY47		MCWY48		MCYB96		_MCYB97		_MCYB98		MCYB99		_MCYC00		_MCYCO2		_MCYC05	I	_MCYCO6	<u></u>
	Dilution Factor	1.00		1.00		_1.00 / 50.	00_	_1.00 / 20.	00_	1.00 / 5.0	0_1	_1.00		_1.00 / 5.0	0	_1.00 / 5.0	00_	_1.00 / 5.0	0_	_1.00/5.00/	100
	% Solids	78.2		73.5		_86.3		_81.0		78.6		_72.9		_80.5		78.9		61.9		_88.0	
	Location	TS-SED-02		TS-SED-01		TS-SS-01_		_TS-SS-02		_TS-SS-03		_TS-SS-04_		_ts-ss-05		_TS-FD-01		_TS-SB-01	1	_TS-SB-02	
		Ï.		_						İ	1			DUPLICATE O	F	DUPLICATE C)F		ı	J	- 1
CRDL	ANALYTE	ĺ								ĺ				MCYC02		MCYC00		l .	١	l	· -
=====			====		====	========	===	========	===	========	===		===	========	===	========	===		:===	=========	:===
40_	Aluminum	_16100	.1	13300	I	23700		13400		13300		14700	l	16300	—	_15100	<u> </u>	45100		25200	!!
12	_ Antimony	[_[0.86]	_B_	[6.6]	_L_	_[1.2]	_8_	_[2.4]	_B_	[4.9]	_L_	[2.0]	_B_	_[4.5]	_r_	[_[3.0]	_B_	[_[5.1]	_B_	<u></u>	_B_
2_	_ Arsenic	5.9	_K_		_K_	33.6	_K_	48.8	_K_	117	_K_	24.0	_K_	<u> 96.3</u>	_K_	_96.9	_K_	16.2	_K_	_29.4	_K_
40_	_ Barium	67.1	. _J_	164	_J_	485	_J_	200	_1 [_]	334	_J_	193	_J_	235	_J_	255	_J_	1810	_J_	!	_J_
1_	_ Beryllium	[_(0.58]	.	[_[0.62]	<u> </u>	[_[0.43]		[_[0.61]	l	[_[0.63]		[_[0.60]	l	[_[0.73]		[0.69]	<u> </u>	_[0.67]		_[0.44]	<u> </u>
1_	_ Cadmium	_1.5	.	_4.1	 	6.5		_4.6	l	6.5	 	4.0	۱	7.1		 7.2	<u> </u>	7.6		6.0	<u> </u>
1000_	_ Calcium	1300	.1	2770	I	12800		7190	I	6870	 	14800	l	14900[20600	I_	22900	<u> </u>	<u> 9910</u>	<u> </u>
2_	_ Chromium	36.1	_J_	68.6	_J_	288	_J_	160	_J_	172	_J_	71.9	_J_	336	_J_	461	_ı_	158	_J_	<u> </u>	-1-
10_	_ Cobalt	[8.8]	.I	[_[11.1]	I	19.3	ا	52.7	<u> _</u>	86.3	l	14.8	l	86.7 <u>·</u>		92.7	1	_[14.4]	 	21.1	1_1
5_	_ Copper	24.5	.l_J_	213	_J_	277]_J_	263	_ı_	470]_J_j_		_J_	353	_J_	1_374	_ı_	1_198	_J_		1_1_1
20_	Iron	52800	. _J_	40800	_J_]34000	_J_	59500	_J_	82300_+_	_J_	51900	_J_	88800_+_	_J_	<u> 80900_+_</u>	1-1-	22300	_J_	58300	_i_
0.6	*Lead	1120	1_1_	8370	_J_	206000_+	_J_	1139000_+	_J_	7460 _	_J_	11100	1_1_	<u> 4590</u>	_J_	5630	1-1-	<u> 7670</u>	_J_	264000_+	_J_
	Magnesium	4050	.i	3350	İ	2920	I	3950	I	3420	I	3180	I	3930	١	4450	I	4060	l	2140	.11
3_	Manganese	247	_J_	253	_J_	435	_J_	372	1_1_	403	_J_	348	_J_	<u> 589</u>	_J_	637	_J_		_J_	413	.l_ı_l
0.1	Mercury	İ	1	[0.06]	İ	0.15	İ	0.14	l	0.23	<u> </u>	0.17	I	0.27	١	0.34		.1	 	1_0.19	.
	Nickel	18.6	_J_	38.3	_J_	42.6	_J_	33.7	_J_	40.3	<u> </u> _J_	51.8	_J_	36.3	_J_	38.1	1_1_	30.1	_J_	36.3	. _4_
	Potassium	2070	. j	1330	i	[_[1130]	i	1800	İ	1610	İ	[_[1160]	<u> </u>	1560	١	1460	.	[963]	I	[_[710]	.
1	Selenium	[0.85]	J	2.6	J_	_5.0	_J_	7.2	1_1_	9.2	_J_	_5.4	_J_	_13.2	_J_	16.3	1_1_	_4.6	_J_	_3.3	. _J_
	Silver	-i	1	i	i	[_[1.3i	İ	[_[1.7]	İ	[_[1.8]	<u> </u>	[_[0.33]	<u> </u>	[_[1.8]	 	[_[1.9]	.	[0.45]	I	[_[1.3]	.
	Sodium	[780]	B_	[1040]	_B_	[662]	_B_	[_[501]	_B_	[487]	_B_	[949]	_B_		_B_	_[524]	_8_	1650	_B_	[_[608]	. _B_
	Thallium	ے.5	_i	3.8	_K_	i		4.3	_K_	8.5	İ	4.7	_K_	8.0	I	6.6	.	_[1.1]	_K_	[_[1.2]	. _K_
	Vanadium	56.0	_i	35.9	i	39.6		39.6	<u> </u>	47.7	<u> </u>	43.3	<u> </u>	53.0	<u> </u>	52.1	.	60.3	I		.
	Zinc	153	i	1180	i	6120_+_	<u></u>	1820	Ī	2280	<u> </u>	2110	<u> </u>	2310	<u> </u>	2900	<u> </u>	13000_+_	1	5050_+	.
	_ Cyanide	-i) UL	i	UL	[0.29]	<u> </u> _L	[_[0.15]	_L	[0.21]	<u> </u> _L_	[0.17]	<u> </u> _L_	[_[0.22]	_ا_ل	[0.23]	<u> L</u>		_UL	[_[0.17]	.
 '-),	- 	_ <u>i</u> _		i	i —	i -	ï –	i	i	i	<u> </u>	<u>.</u>	<u> </u>	İ	<u> </u>	.	.	I	.	.
	I	-	- 1				•—	,		-,								NADDATIVE			

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98



+ Due to dilution, sample quantitation limit is affected.

DATA SUMMARY FORM: I N O R G A N I C S

ite Name:

12TH STREET LANDFILL

SOIL SAMPLES

(mg/Kg)

ase #: 27341

Sampling Date(s): 08/31/1999 - 09/01/1999

JG	#:	 ILL	114	1

Sample No.	MCYC07	_		I		I.		1.		.		1.		I		I				
Dilution Factor		.00_		i						_1				I				!		
	70.0			i		1.						1.		1						
	TS-SB-03	j.								_						¦		—¦		—
L ANALYTE	! !	} 		 		 		! 		 		 -==	=========	 ===	2222222	י ===		, :	=========	===
0_ _ Aluminum	•	- 		_		 				_		_		<u>i</u>	!	<u></u> į		<u>!—</u> !	ļ [/]	<u> </u> _
2 Antimony	_[_[14.3]	_4_ _		_11		 	l.					!	!	<u></u> !		<u>!</u>		!!	ļ	!-
2 Arsenic	27.8			_ _		<u> _ </u>	l			I		!	<u> </u>	[!		<u> </u>	ļ	<u>-</u> [_
0_ _ Barium	_ 116	_1_ _		_		<u> </u>	.	ا			!	!		!		<u>—</u> !		!!	ļ	<u>. -</u>
1_ _ Beryllium	_l	اا				11				!	!	!		<u></u> ļ	<u> </u>			!!	ļ	<u>-</u> -
1_ Cadmium	_ 14.7	ــــــــــــــــــــــــــــــــــــــ		_11		1_1		<u></u>		<u></u> ļ		<u>—</u> ļ				!		!!	ļ	. <u> </u> -
0_ _ Calcium	_ 8980	ll_		_		ll		!	!	<u>ا</u>	!	!	!	!	<u> </u>			!!	l	<u> </u> -
2_ _ Chromium	_ _95.4	_J_ _		_		ll	<u>-</u>	<u></u> ļ	!	<u>ا</u>	!	—!	!	_				<u> </u>	l	· -
0_ _ Cobalt	_ _53.5	ll.		_11		<u> </u>	!	!	!	<u></u> !		<u></u> !	!			_	<u> </u>	!!	ļ	٠ļ-
5_ _ Copper	_ _1590	1_1_1.		_ _		إــــا	!	<u>—</u> ļ	l	<u>—</u> ļ	!	<u>—</u> !	!	—	<u> </u>	_		<u> </u>	ļ	- -
0_ _ 1ron	_ 456000_+	_J_ .		_		II	!	!		<u>—</u> !	<u> </u>	<u>—</u> !	I			<u> </u>	<u> </u>	<u> </u>	ļ	- -
6_ _*Lead	_ 148	1_1_1.		_ _		.ii	!	<u></u> ļ	!	<u></u>			!				<u> </u>	<u> </u>	<u> </u>	- -
00_ _ Magnesium	_ 1400	ll.		_ _		.\						!	<u> </u>	—	!		<u> </u>	ļ	ļ	- -
3 Manganese	_ _2810	. _J_ .	<u> </u>	_ _		.]	_	<u> </u>	!	<u> </u>		ļ	ļ	<u> </u>	<u> </u>	ļ	- -
.1_ _ Mercury	_ _[0.07]	.			<u> </u>	.11			1				<u> </u>		<u> </u>	!—	!	!	ļ	-!-
8_ _ Nickel	_ 111	1_1_1			l	اـــــــــــــــــــــــــــــــــــــ	 				l <u></u>		l		ļ	<u>!</u> —	<u> </u>	<u>ļ</u> —	ļ	-إ-
00 Potassium	[396]	.11		_ _	l	.11				_	l <u>:</u> -			l	l	<u> </u>	<u> </u>	<u> </u>	.j	-ļ-
1_ _ Selenium	3.8	<u> _</u> J_			<u> </u>	.	l			_	l		łl	<u> </u>	l	l	<u> </u>	. 	·ļ	-ļ-
2 Silver	[0.67]	1_1			1	.11			l	_	l		li	<u> </u>	l	1	ļ	.ļ	.	-ļ-
00 Sodium	[612]	_B_		i	İ	.		l	l		<u> </u>	 	ll	l		l	<u> </u>	.	.	-ļ-
2 Thattium	38.7	ii		i	l	.i		<u> </u>			l		 	I	<u> </u>	I_	·	.	.	_ļ.
10_ Vanadium		ii		i		.i			l			 	<u> </u>	l	<u> </u>	<u> </u>	.	.ļ	.	_ļ.
4 Zinc		<u>ii</u>		i		<u> </u>						I	 	l	<u> </u>	l	<u> </u>	<u>. </u>	.	_ļ.
1 Cyanide	-i			i_	i	i		i			1	1	l	11	1	<u> </u>	.]	.l	.	_1

RDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98





12 th Street Landfill Industrial Soil - U.S. EPA CLP Volatile Organic Analysis Data Sheet All units in mg/kg

		ma p.c. c:		TC DC 02		TS-DC-03	Q	TS-DC-04	Q
CAS#	Compound	TS-DC-01					_		
74873	Chloromethane	0.11	U	0.011	U	0.0023	J	0.58	U
74839	Bromomethane	0.11	U.	0.011	U	0.001	U	0.58	U
75014	Vinyl chloride	0.11	U	0.011	Ü	0.001	U	0.58	G
75003	Chloroethane	0.11	U	0.011	U	0.001	U	0.58	U
75092	Methylene chloride	0.42		0.011	U	0.067	_	0.58	ם
67641	Acetone	0.019	J	0.0086	J	0.032		0.58	U
75150	Carbon disulfide	1.2		0.022		0.001	U	0.58	U
75354	1,1-Dichloroethene	0.11	U	0.011	U	0.001	U	0.58	Ü
75343	1,1-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
540590	1,2-Dichloroethene (total)	0.11	U	0.011	U	0.001	U	0.58	U
67663	Chloroform	0.11	U	0.0015	J	0.001	U	0.58	U
107062	1,2-Dichloroethane	0.11	Ü	0.011	U	0.001	U	0.58	ם
78933	2-Butanone (MEK)	0.11	U	0.0023	J	0.001	U	0.58	U
71556	1,1,1-Trichloroethane	0.11	U	0.011	U	0.001	Ū	0.58	G
56235	Carbon tetrachloride	0.11	U	0.011	U	0.001	U	0.58	מ
75274	Bromodichloromethane	0.11	U	0.011	U	0.001	U	0.58	G
78875	1,2-Dichloropropane	0.11	U	0.011	U	0.001	U	0.58	Ü
542756	1,3-Dichloropropene	0.11	U	0.011	Ū	0.001	U	0.58	Ü
79016	Trichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
124481	Dibromochloromethane	0.11	U	0.011	U	0.001	U	0.58	G
79005	1,1,2-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	ם
71432	Benzene	0.069	J	0.011	U	0.001	U	0.58	Ū
75252	Bromoform	0.11	U	0.011	U	0.001	U	0.58	U
108101	4-Methyl-2-pentanone	0.11	U	0.011	U	0.001	U	0.58	U
591786	2-Hexanone	0.11	U	0.011	U	0.001	U	0.58	U
127184	Tetrachloroethene	0.11	Ū	0.0058	J	0.001	Ü	0.58	U
79345	1,1,2,2-Tetrachloroethane	0.11	U	0.011	U	0.001	U	0.58	Ü
108883	Toluene	730		21		0.065	$oxed{}$	1,200	 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
108907	Chlorobenzene	0.11	U	0.011	U	0.001	U	0.58	U
100414	Ethylbenzene	0.046	J	0.0034	J	0.001	U	0.58	U
100425	Styrene	0.11	U	0.011	U	0.001	U	0.58	U
1330207	Xylene (total)	0.067	J	0.017		0.0046	J	0.58	Ū

U - Not Detected



12 th Street Landfill Industrial Soil - U.S. EPA CLP Semi-Volatile Organic Analysis Data Sheet All units in mg/kg

		TS-DC-01	$\overline{\Delta}$	TS-DC-02	Q	TS-DC-03	\mathbf{O}	TS-DC-04	
CAS#	Compound		Q		_	530	Ü	210	
108952	Phenol	70	U	9.1	U		U	19	Ū
111444	bis(2-Chloroethyl) ether	70	Ŭ	9.1	U	530		19	Ū
95578	2-Chlorophenol	70	U	9.1	Ü	530	U		
541731	1,3-Dichlorobenzene	70	U	9.1	ט	530	U	19	U
106467	1,4-Dichlorobenzene	70	Ŭ	9.1	ט	530	U	19	U
95501	1,2-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95487	2-Methylphenol	70	U	9.1	ש	530	U	19	U
108601	2,2'-oxybis(1-Chloropropane)	70	U	9.1	ט	530	U	19	U
106445	4-Methylphenol	70	U	9.1	Ŭ	530	U	19	U
621647	N-Nitroso-di-n-propylamine	70	U	9.1	U	530	U	19	U
67721	Hexachloroethane	70	U	9.1	U	530	U	19	U
98953	Nitrobenzene	70	Ū	9.1	U	530	U	19.	U
78591	Isophorone	70	Ū	9.1	U	530	U	19	Ŭ
88755	2-Nitrophenol	70	U	9.1	U	530	Ü	19	U
105679	2,4-Dimethylphenol	70	U	9.1	U	530	U	19	U
111911	bis(2-Chloroethoxy) methane	70	U	9.1	U	530	U	19	U
120832	2,4-Dichlorophenol	70	Ū	9.1	U	530	U	19	G
120821	1.2.4-Trichlorobenzene	70	Ü	9.1	U	530	U	19	ū
91203	Naphthalene	70	U	1.6	J	530	U	19	U
106478	4-Chloroaniline	70	U	9.1	U	530	U	19	Ū
87683	Hexachlorobutadiene	70	Ū	9.1	U	530	U	19	ם
59507	4-Chloro-3-methylphenol	70	U	9.1	U	530	U	19	U
91576	2-Methylnaphthalene	710		58		530	U	19	Ü
77474	Hexachlorocyclopentadiene	70	Ū	9.1	U	530	U	19	ם
88062	2.4.6-Trichlorophenol	70	U	9.1	U	530	U	19	U
95954	2,4,5-Trichlorophenol	180	U	23	U	1,300	U	49	U
91587	2-Chloronapthalene	70	U	9.1	U	530	U	19	U
88744	2-Nitroaniline	180	U	23	U	1,300	U	49	U
131113	Dimethylphthalate	70	Ū	9.1	U	530	·U	19	U
208968	Acenaphthylene	70	Ū	9.1	U	530	U	19	U
606202	2.6-Dinitrotoluene	70	Ū	9.1	U	530	U	19	U
99092	3-Nitroaniline	180	Ū	23	U	1,300	U	49	U
83329	Acenaphthene	450		9.1	U	75	J	19	U

U - Not Detected



12 th Street Landfill Industrial Soil - U.S. EPA CLP (continued) Semi-Volatile Organic Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
51285	2,4-Dinitrophenol	180	Ū	23	Ü	1,300	U	49	U
100027	4-Nitrophenol	180	IJ	23	U	1,300	U	49	U
132649	Dibenzofuran	470		9.1	Ū	530	U	19	U
121142	2,4-Dinitrotoluene	70	Ü	9.1	U	530	U	19	U
84662	Diethylphthalate	70	Ü	9.1	U	530	U	19	U
7005723	4-Chlorophenyl-phenylether	70	Ü	9.1	IJ	530	U	19	U
86737	Fluorene	90		9.1	J	530	U	19	U
100016	4-Nitroaniline	180	U	23	U	1,300	U	49	Ū
534521	4,6-Dinitro-2-methylphenol	180	U	23	IJ	1,300	U	49	Ü
86306	N-Nitrosodiphenylamine	70	U	9.1	U	530	U	19	Ü
101553	4-Bromophenyl-phenylether	70 ^	U	9.1	U	530	U	19	ט
118741	Hexachlorobenzene	70	U	9.1	ט	530	U	19	U
87865	Pentachlorophenol	180	U	23	U	1,300	U	49	U
85018	Phenanthrene	70	U	9.1	U	530	U	19	U
120127	Anthracene	70	U	9.1	U	530	U	19	Ŭ
86748	Carbazole	70	U	9.1	Ü	530	Ü	19	U
84742	Di-n-butylphthalate	70	U	9.1	U	530	U	19	U
206440	Fluoranthene	70	U	9.1	U	530	U	19	U
129000	Pyrene	70	U	9.1	U	530	U	19	U
85687	Butylbenzylphthalate	70	Ū	9.1	U	530	U	19	U
91941	3,3'-Dichlorobenzidine	70	Ü	9.1	U	530	U	19	U
56553	Benzo(a)anthracene	70	U	9.1	U	530	U	19	U
218019	Chrysene	70	U	9.1	U	530	U	19	U
117817	bis(2-Ethylhexyl)phthalate	70	U	68		530	U	20	<u> </u>
117840	Di-n-octylphthalate	70	U	9.1	U	530	U	19	U
205992	Benzo(b)fluoranthene	70	U	9.1	U	530	U	19	U
207089	Benzo(k)fluoranthene	70	U	9.1	U	530	U	19	U
50328	Benzo(a)pyrene	70	U	9.1	U	530	U	19	U
193395	Indeno(1.2.3-cd)pyrene	70 -	Ü	9.1	U	530	U	19	Ū
53703	Dibenz(a,h)anthracene	70	U	9.1	U	530	U	19	U
191242	Benzo(g,h,i)perylene	70	U	9.1	U	530	U	19	Ţυ

U - Not Detected J - Approximate



12th Street Landfill Industrial Soil - U.S. EPA CLP Pesticide/Polychlorinated Biphenyl Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	
319846	alpha-HCH	0.18	Ū	0.0094	U	0.17	U	0.02	U
319857	beta-HCH	0.18	Ū	0.0094	U	0.17	U	0.02	U
319868	delta-HCH	0.18	IJ	0.0094	U	0.17	U	0.02	U
58899	gamma-HCH (Lindane)	0.18	Ū	0.0094	U	0.17	U	0.02	U
76448	Heptachlor	0.18	U	0.0094	U	0.17	U	0.02	ט
309002	Aldrin	0.18	Ü	0.0094	U	0.17	U	0.02	U
1024573	Heptachlor epoxide	0.18	ט	0.0094	U	0.17	Ŭ	0.015	J
959988	Endosulfan I	0.18	U	0.0094	U	0.17	U	0.02	U
60571	Dieldrin	0.35	ט	0.018	U	0.33	U	0.039	Ū
72559	4,4'-DDE	0.35	Ü	0.013	J	0.33	Ŭ	0.039	Ū
72208	Endrin	0.35	U	0.02		0.33	U	0.039	U
33213659	Endosulfan II	0.35	U	0.018	U	0.33	U	0.039	U
72548	4,4'-DDD	0.35	U	0.018	U	0.33	U	0.039	G
1031078	Endosulfan sulfate	0.35	Ū	0.018	U	0.33	U	0.039	Ū
50293	4,4'-DDT	0.35	U	0.014	J	0.33	U	0.039	U
72435	Methoxychlor	1.8	U	0.094	U	1.7	U	0.2	U
53494705	Endrin ketone	0.18	U	0.0094	U	0.17	U	0.02	U
7421363	Endrin aldehyde	0.35	U	0.018	U	0.33	U	0.026	J
5103719	alpha-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
5103742	gamma-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
8001352	Toxaphene	18	U	0.94	U	17	U	2	U
12674112	Aroclor-1016	3.5	U	0.18	U	3.3	U	0.39	U
11104282	Aroclor-1221	7.1	U	0.37	U	6.7	U	0.78	U
11141165	Aroclor-1232	3.5	U	0.18	U	3.3	U	0.39	Ü
53469219	Aroclor-1242	3.5	U	0.18	U	3.3	U	0.39	Ü
12672296	Aroclor-1248	3.5	U	0.18	U	3.3	U	0.39	U
11097691	Aroclor-1254	3.5	U	0.18	U	3.3	U	0.39	·U
11096825	Aroclor-1260	3.5	U	0.18	U	3.3	l	0.39	10

U - Not detected.

J - Approximate



12th Street Landfill Industrial Soil - U.S. EPA CLP Inorganic Analysis Data Sheet All units in mg/kg

									_
CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q'		
7429905	Aluminum	1,150		17,300				6,450	
7440360	Antimony	0.36	U	1.7				1.2	
7440382	Arsenic	5.1		15.3				19.7	
7440393	Barium	17.3		218				194	
7440417	Beryllium	0.051		0.3				0.3	
7440439	Cadmium	2		3.8				21.2	
7440702	Calcium	564		8,890				4,000	
7440473	Chromium	7.9		146	Ĺ.,			38.9	
7440484	Cobalt	3.5		8.9				14.8	
7440508	Copper	16.5		192				171	
7439896	Iron	10,300		17,600				48,800	<u> </u>
7439921	Lead	207		106,000				3,970	ļ
7439954	Magnesium	2,010		2,100				1,290	
7439965	Manganese	19.6		167				519	
7439976	Mercury	0		0.23				0.18	<u> </u>
7440020	Nickel	0.14		25				36.9	
7440097	Potassium	240		55 2				557	<u> </u>
7782492	Selenium	0.84		2.9				1.2	<u> </u>
7440224	Silver	0.47	Ū	1.1				0.51	U
7440235	Sodium	779		323				165	<u> </u>
7440280	Thallium	0.79	U	4.8				0.87	U
7440622	Vanadium	9		24.5				23.1	lacksquare
7440666	Zinc	13,600		4,110				1,490	ļ.,
74908	Cyanide	2.7	U	3.3	Ŭ	2.5	U	2.9	U

U - Not detected

Note: There was insufficient sample to analyze sample TS-DC-03 for metals. Shaded areas exceed EPA Region III Risk Based Concentrations (RBCs)



12 th Street Landfill Residential Sediment - U.S. EPA CLP Volatile Organic Analysis Data Sheet All units in mg/kg

		<u> </u>			_		_		
CAS#	Compound			TS-AM-02		TS-AM-03		TS-FD-03	Q
74873	Chloromethane	0.013	U	0.013	ט	0.013	U	0.013	U
74839	Bromomethane	0.013	ט	0.013	IJ	0.013	U	0.013	U
75014	Vinyl chloride	0.013	U	0.013	כ	0.013	Ŭ	0.013	U
75003	Chloroethane	0.013	U	0.013	Ŭ	0.013	Ŭ	0.013	U
75 092	Methylene chloride	0.013	U	0.013	U	0.013	U	0.013	Ü
67641	Acetone	0.013	Ŭ	0.0031	J	0.02		0.0022	J
75150	Carbon disulfide	0.013	ט	0.013	U	0.0023	J	0.013	U
75354	1,1-Dichloroethene	0.013	ט	0.013	U	0.013	Ü	0.013	Ū
75343	1,1-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
540590	1,2-Dichloroethene (total)	0.013	U	0.013	U	0.013	U	0.013	U
67663	Chloroform	0.013	U	0.013	U	0.013	U	0.013	U
107062	1,2-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
78933	2-Butanone (MEK)	0.013	U	0.0021	J	0.0053	J	0.0022	J
71556	1,1,1-Trichloroethane	0.013	U	0.013	Ū	0.013	Ü	0.013	U
56235	Carbon tetrachloride	0.013	U	0.013	U	0.013	U	0.013	Ü
75274	Bromodichloromethane	0.013	U	0.013	Ü	0.013	U	0.013	U
78875	1,2-Dichloropropane	0.013	U	0.013	U	0.013	U	0.013	U
542756	1,3-Dichloropropene	0.013	U	0.013	U	0.013	U	0.013	U
79016	Trichloroethene	0.013	U	0.013	Ū	0.013	U	0.013	U
124481	Dibromochloromethane	0.013	U	0.013	U	0.013	U	0.013	U
79005	1,1,2-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
71432	Benzene	0.013	U	0.013	U	0.013	U	0.013	U
75252	Bromoform	0.013	U	0.013	U	0.013	U	0.013	U
108101	4-Methyl-2-pentanone	0.013	U	0.013	U	0.013	U	0.013	Ü
591786	2-Hexanone	0.013	U	0.013	U	0.013	U	0.013	U
127184	Tetrachloroethene	0.013	Ü	0.013	U	0.0019	J	0.013	U
79345	1.1,2,2-Tetrachloroethane	0.013	U	0.013	Ü	0.013	U	0.013	U
108883	Toluene	0.013	U	0.013	U	0.013	U	0.013	U
108907	Chlorobenzene	0.013	U	0.013	U	0.013	U	0.013	U
100414	Ethylbenzene	0.013	U	0.013	U	0.013	U	0.013	Ü
100425	Styrene	0.013	U	0.013	U	0.013	U	0.013	U
1330207	Xylene (total)	0.013	Ū	0.013	U	0.002	J	0.013	U

U - Not Detected



12 th Street Landfill Resiedntial Sediment - U.S. EPA CLP Semi-Volatile Organic Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
108952	Phenol	0.43	Ü	0.44	U	0.43	Ü	0.44	U
111444	bis(2-Chloroethyl) ether	0.43	U	0.44	U	0.43	U	0.44	U
95578	2-Chlorophenol	0.43	U	0.44	U	0.43	U	0.44	G
541731	1,3-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
106467	1.4-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95501	1.2-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95487	2-Methylphenol	0.43	Ū	0.44	U	0.43	U	0.44	U
108601	2,2'-oxybis(1-Chloropropane)	0.43	U	0.44	U	0.43	U	0.44	U
106445	4-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
621647	N-Nitroso-di-n-propylamine	0.43	U	0.44	U	0.43	U	0.44	U
67721	Hexachloroethane	0.43	U	0.44	U	0.43	U	0.44	U
98953	Nitrobenzene	0.43	U	0.44	U	0.43	U	0.44	U
78591	Isophorone	0.43	U	0.44	U	0.43	U	0.41	J
88755	2-Nitrophenol	0.43	Ü	0.44	U	0.43	U	0.44	U
105679	2,4-Dimethylphenol	0.43	U	0.44	U	0.43	U	0.44	U
111911	bis(2-Chloroethoxy) methane	0.43	U	0.44	U	0.43	U	0.44	U
120832	2,4-Dichlorophenol	0.43	U	0.44	U	0.43	U	0.44	Ü
120821	1,2,4-Trichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
91203	Naphthalene	0.43	U	0.44	U	0.43	Ū	0.44	U
106478	4-Chloroaniline	0.43	U	0.44	U	0.43	U	0.44	U
87683	Hexachlorobutadiene	0.43	U	0.44	U	0.43	U	0.44	U
59507	4-Chloro-3-methylphenol	0.43	U	0.44	U	0.43	U	0.44	Ü
91576	2-Methylnaphthalene	0.43	U	0.44	U	0.43	U	0.44	U
77474	Hexachlorocyclopentadiene	0.43	U	0.44	U	0.43	U	0.44	U
88062	2,4,6-Trichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
95954	2.4,5-Trichlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
91587	2-Chloronapthalene	0.43	U	0.44	U	0.43	U	0.44	U
88744	2-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
131113	Dimethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
208968	Acenaphthylene	0.43	U	0.44	U	0.43	U	0.44	Ü
606202	2,6-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	Ü
99092	3-Nitroaniline	1.1	U	1.1	U	1.1	U	0.44	U
83329	Acenaphthene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected J - Approximate



12 th Street Landfill Residential Sediment - U.S. EPA CLP (continued) Semi-Volatile Organic Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
51285	2.4-Dinitrophenol	1.1	Ū	1.1	Ū	1.1	U	1.1	U
100027	4-Nitrophenol	1.1	U	1.1	Ū	1.1	U	1.1	Ü
132649	Dibenzofuran	0.43	U	0.44	U	0.43	כ	0.44	U
121142	2.4-Dinitrotoluene	0.43	U	0.44	U	0.43	כ	0.44	U
84662	Diethylphthalate	0.43	Ū	0.44	U	0.43	ט	0.44	U
7005723	4-Chlorophenyl-phenylether	0.43	U	0.44	Ū	0.43	כ	0.44	Ū
86737	Fluorene	0.43	·U	0.44	U	0.43	Ŭ	0.44	U
100016	4-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
534521	4.6-Dinitro-2-methylphenol	1.1	U	1.1	U	1.1	U	1.1	Ŭ
86306	N-Nitrosodiphenylamine	0.43	U	0.44	U	0.43	U	0.44	U
101553	4-Bromophenyl-phenylether	0.43	Ū	0.44	U	0.43	U	0.44	מ
118741	Hexachlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
87865	Pentachlorophenol	1.1	Ū	1.1	U	1.1	U	1.1	U
85018	Phenanthrene	0.43	Ū	0.44	U	0.43	U	0.044	J
120127	Anthracene	0.43	U	0.44	U	0.43	U	0.44	IJ
86748	Carbazole	0.43	U	0.44	Ü	0.43	U	0.44	ט
84742	Di-n-butylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
206440	Fluoranthene	0.43	U	0.44	Ü	0.43	U	0.081	J
129000	Рутепе	0.43	U	0.44	U	0.43	U	0.062	<u>_</u>
85687	Butylbenzylphthalate	0.43	U	0.44	U	0.43	Ü	0.072	J
91941	3,3'-Dichlorobenzidine	0.43	U	0.44	U	0.43	U	0.44	ם
56553	Benzo(a)anthracene	0.43	U	0.44	U	0.43	U	0.043	 _
218019	Chrysene	0.065	J	0.44	U	0.43	U	0.055	J
117817	bis(2-Ethylhexyl)phthalate	0.085	J	0.13	J	0.079	J	0.81	<u> </u>
117840	Di-n-octylphthalate	0.43	U	0.44	Ü	0.43	U	0.44	U
205992	Benzo(b)fluoranthene	0.43	U	0.44	Ü	0.43	U	0.045	1
207089	Benzo(k)fluoranthene	0.43	U	0.44	U	0.43	U	0.44	U
50328	Benzo(a)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
193395	Indeno(1,2,3-cd)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
53703	Dibenz(a,h)anthracene	0.43	U	0.44	U	0.43	U	0.44	U
191242	Benzo(g,h,i)perylene	0.43	U	0.44	U	0.43	U	0.44	Ιυ

U - Not Detected

12th Street Landfill Residential Sediment - U.S. EPA CLP Pesticide/Polychlorinated Biphenyl Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q		Q
319846	alpha-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319857	beta-HCH	0.0032	IJ	0.0023	U	0.0022	U	0.0023	U
319868	delta-HCH	0.0032	ט	0.0023	U	0.0022	U	0.0023	U
58899	gamma-HCH (Lindane)	0.0032	ט	0.0023	U	0.0022	U	0.0023	U
76448	Heptachlor	0.0022	ט	0.0023	U	0.0022	U	0.0023	U
309002	Aldrin	0.0022	ט	0.0023	U	0.0022	U	0.0023	U
1024573	Heptachlor epoxide	0.0022	ט	0.0023	U	0.0022	U	0.0023	G
959988	Endosulfan I	0.0022	U	0.0023	U	0.0022	U	0.0023	G
60571	Dieldrin	0.0043	U	0.0044	Ü	0.0043	U	0.0044	U
72559	4,4'-DDE	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72208	Endrin	0.0043	Ü	0.0044	U	0.0043	U	0.0044	ט
33213659	Endosulfan II	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72548	4,4'-DDD	0.0043	U	0.0044	U	0.0043	U	0.0044	U
1031078	Endosulfan sulfate	0.0043	Ü	0.0044	U	0.0043	U	0.0044	C
50293	4,4'-DDT	0.0043	Ü	0.0044	U	0.0043	U	0.0044	U
72435	Methoxychlor	0.022	U	0.023	U	0.022	U	0.023	U
53494705	Endrin ketone	0.0022	Ŭ	0.0023	U	0.0022	U	0.0023	U
7421363	Endrin aldehyde	0.0043	U	0.0044	U	0.0043	U	0.0044	U
5103719	alpha-Chlordane	0.0022	U	0.0023	U	0.0011	J	0.0023	U
5103742	gamma-Chlordane	0.0022	U	0.0023	Ü	0.0022	U	0.0023	Ü
8001352	Toxaphene	0.22	Ū	0.23	U	0.22	U	0.23	U
12674112	Aroclor-1016	0.043	U	0.044	U	0.043	U	0.044	U
11104282	Aroclor-1221	0.088	U	0.09	U	0.088	U	0.089	U
11141165	Aroclor-1232	0.043	U	0.044	U	0.043	U	0.044	U
53469219	Aroclor-1242	0.043	U	0.044	U	0.043	U	0.044	U
12672296	Aroclor-1248	0.043	U	0.044	U	0.043	U	0.044	U
11097691	Aroclor-1254	0.043	U	0.044	U	0.043	U	0.044	U
11096825	Aroclor-1260	0.043	U	0.044	U	0.043	U	0.044	U

U - Not detected.

J - Approximate

OPIGINE

12th Street Landfill Residential Sediment - U.S. EPA CLP Inorganic Analysis Data Sheet All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q		2
7429905	Aluminum	46,500		39,000		4,630		35,400	Ш
7440360	Antimony	0.45	ט	1		1.3		0.59	
7440382	Arsenic	8.9		26		13.1		26.4	
7440393	Barium	1,610		6,270		96.6		3,510	
7440417	Beryllium	0.53		0.79		0.78		0.82	
7440439	Cadmium	7.5		2.9		0.84	U	2.7	
7440702	Calcium	38,000		89,500		380,000		68,600	
7440473	Chromium	56.1		72.1		27.7		79.3	
7440484	Cobalt	7.7		14.6		9		14	
7440508	Copper	233		71.9		544		70.9	
7439896	Iron	13,000		17,500		13,200		18,800	
7439921	Lead	593		383		2,570		911	
7439954	Magnesium	5,620		4,240		790		3,890	
7439965	Manganese	143		431		89.7		349	
7439976	Mercury	0.058	Ū	0.051		0.058	Ŭ	0.065	
7440020	Nickel	35		22.2		11.4		23	
7440097	Potassium	957		2,140		182		2,130	
7782492	Selenium	0.74		0.65	U	3.9		0.64	U
7440224	Silver	0.58	U	0.59	U	0.58	U	0.58	U
7440235	Sodium	1,320		984		123		967	
7440280	Thallium	0.97	Ū	0.99	U	0.97	Ū	1.2	
7440622	Vanadium	65.6		67.3		9.7		64.2	
7440666	Zinc	13,400		10,500		776		8,850	
74908	Cyanide	3.3	U	3.4	U	3.3	U	3.3	U

ORIGINA

Attachment 4

Photograph Log